

SULLIVAN CREEK RECREATION SITES

Restoration Plan for the Proposed Action

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Seattle City Light

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Figure 3-1. Sullivan Creek Dispersed Recreation Site Restoration Project Vicinity

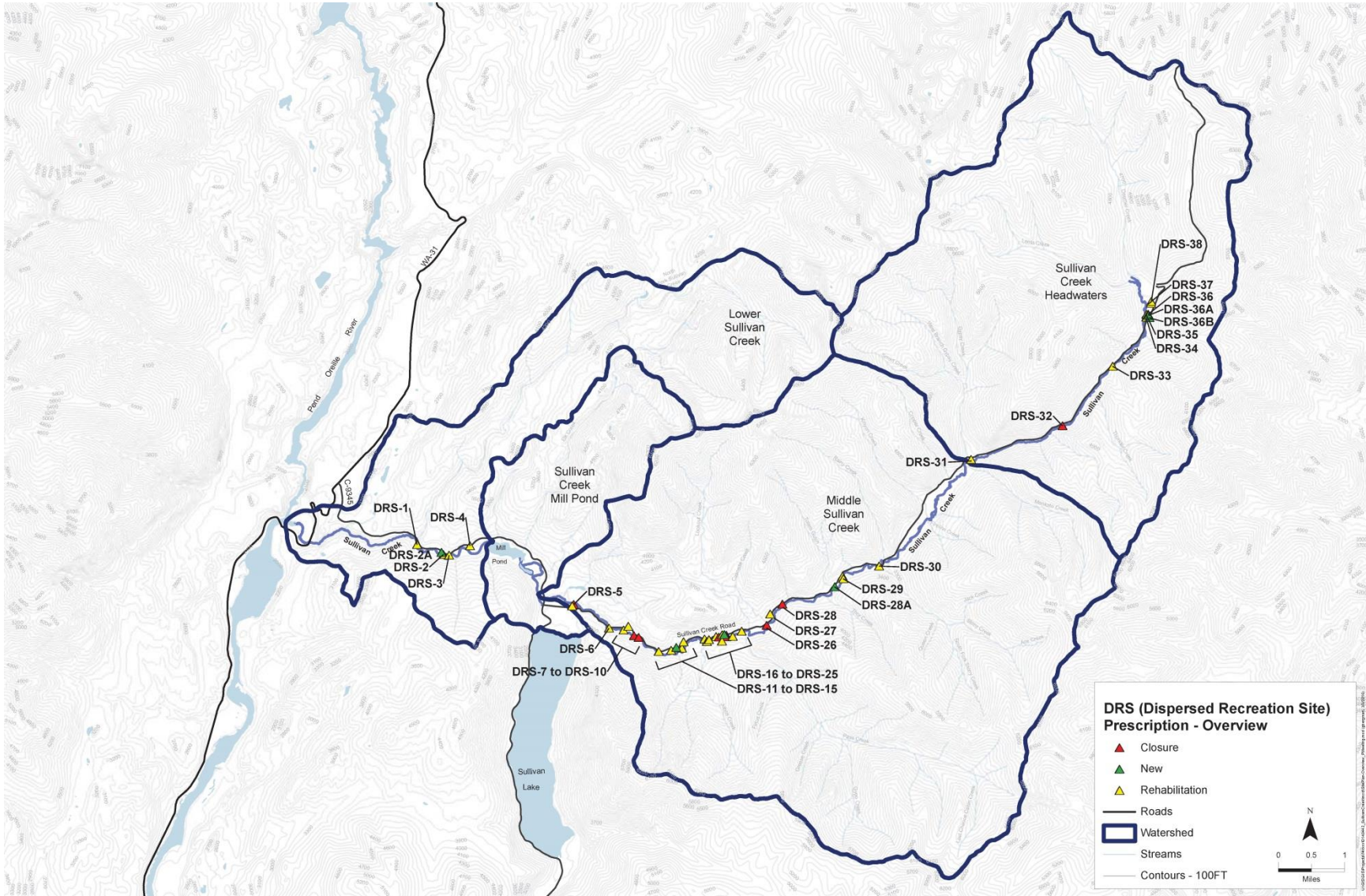


Figure 3-2. Sullivan Creek Dispersed Recreation Sites – Lower Sullivan Creek Subwatershed

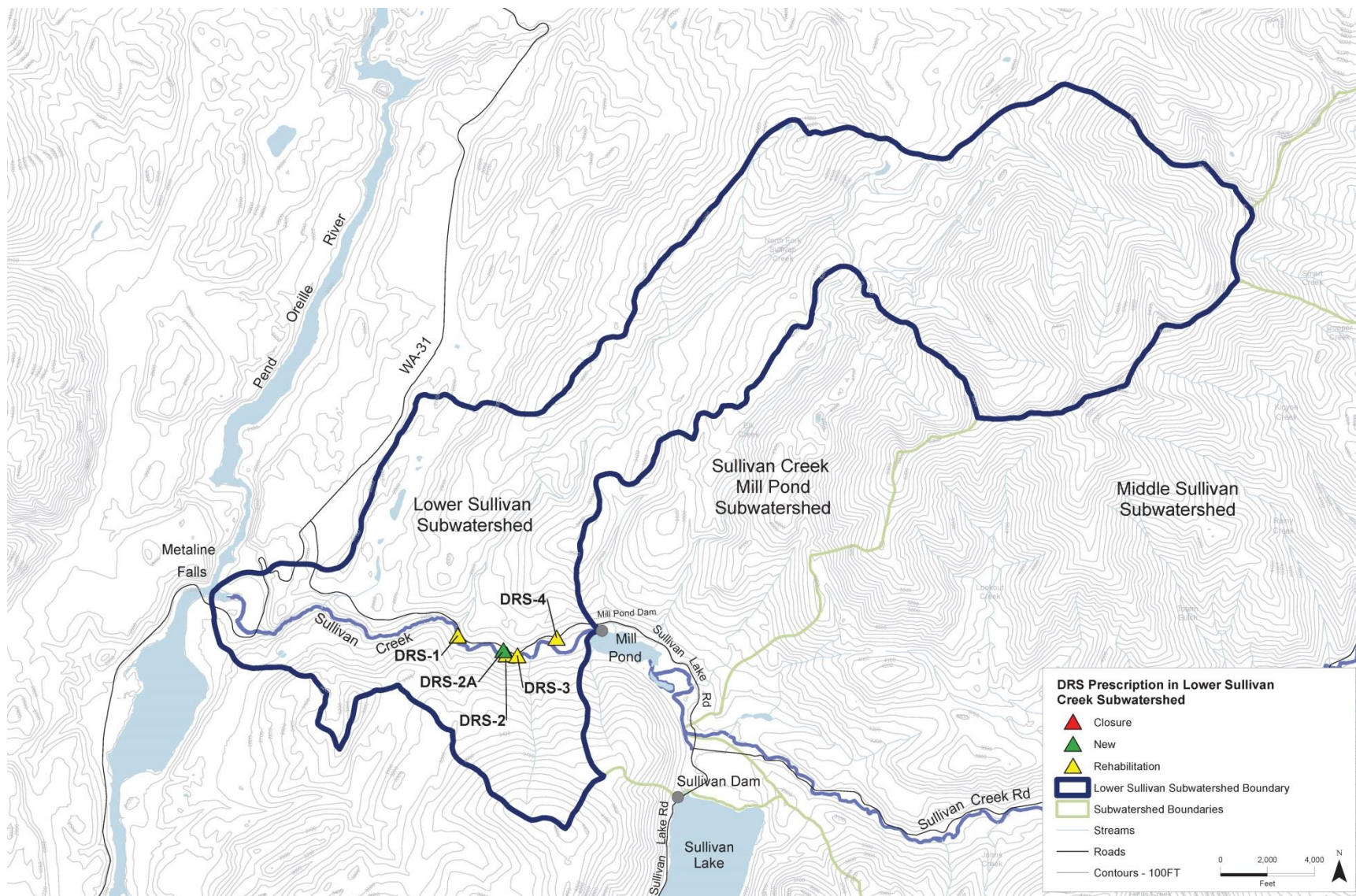


Figure 3-3. Sullivan Creek Dispersed Recreation Sites – Middle Sullivan Creek Subwatershed

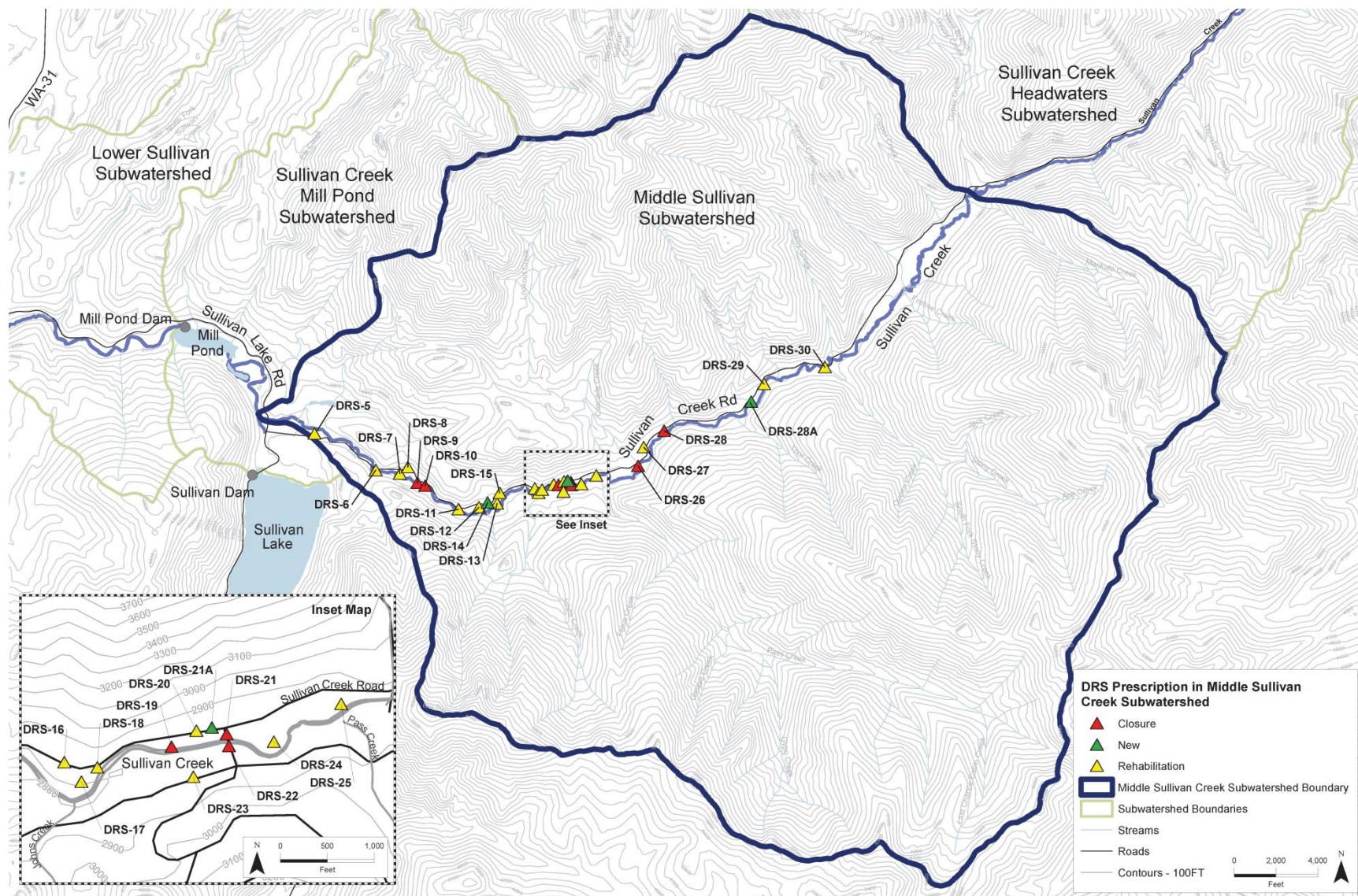
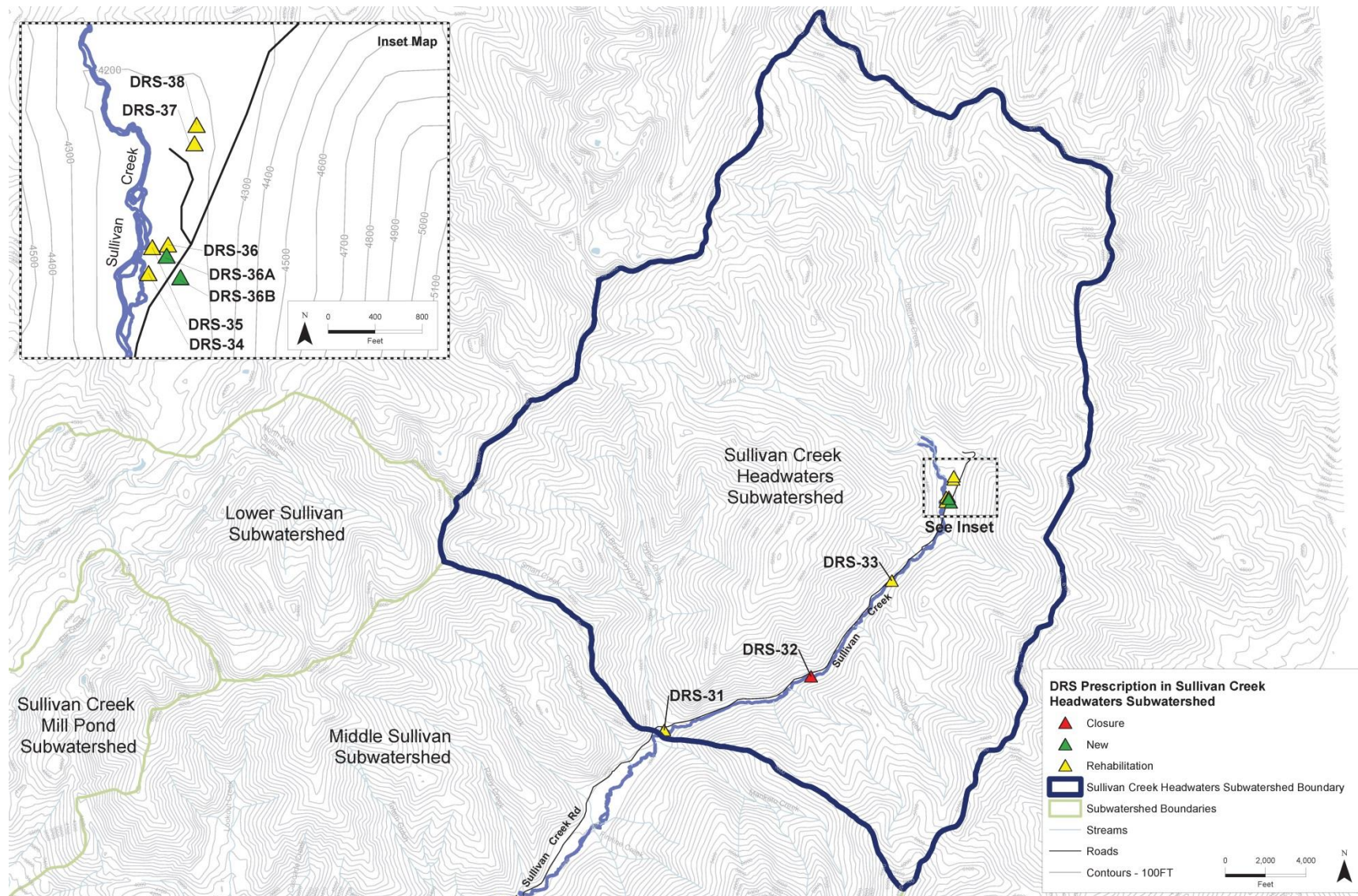


Figure 3-4. Sullivan Creek Dispersed Recreation Sites – Upper Sullivan Creek Subwatershed



- Site Number – a project-specific DRS number, as well as a USFS number, where applicable.
- Size – a qualitative estimate of size based on the number of vehicles that could park at the site. For purposes of this effort, site sizes include:
 - Small = 1-2 vehicles or one pop-up trailer (no recreation vehicles [RVs]),
 - Medium = 3-4 vehicles or one medium to large RV, and
 - Large = 5 or more vehicles or 1 or more RVs.

In addition to the qualitative descriptions of site size based on parking capacity, each site description also includes an estimate of the total area of existing use patterns. This estimate includes all areas within an approximate impact boundary (i.e., area of observed impact) at each site.

- Site Description – a narrative of current conditions based on field observations.
- Estimated Use Level and Types– a qualitative estimate of use based on anecdotal USFS observations) and general types of recreation use allowed and/or occurring at the site (N. Berger, personal communication, October 28 and 29, 2014 and November 6, 2015). For purposes of this effort, estimated site use levels include:
 - Low = some summer season weekend use,
 - Moderate = summer season weekend use with some weekday use, and
 - High = summer season use during weekends and weekdays, as well as some shoulder season use.
- Habitat Issues/Concerns – a narrative of identified habitat issues and/or concerns based on field observations.
- Proposed Treatment – a narrative description of the proposed prescriptive actions at each site.
- Associated Sullivan Creek Restoration Actions – a brief description of Sullivan Creek fish habitat restoration actions at or adjacent to each site that will be completed prior to or concurrent with the dispersed recreation site restoration actions. The License requires SCL to complete substantial restoration of habitat for native fish in Sullivan Creek. SCL plans to use some of the dispersed recreation sites to access Sullivan Creek for these fish habitat enhancements.
- Anticipated Outcome – a brief description of the anticipated outcomes that are likely to result from the proposed treatment.
- Photographs – several photographs of each dispersed recreation site.

Dispersed Recreation Site 01

Site Number: DRS-01

Size: Large; the approximate area of impact of DRS-01 is 24,210 ft².

Site Description: This site is located at river mile (RM) 2.5 and at Sullivan Lake Road mile 1.3. It is on a low terrace along Sullivan Creek accessed via a single entrance/exit from Sullivan Lake Road. There are at least five distinct use areas (space for a tent or RV/parked vehicle) and six user-defined (user-created) campfire rings at this site. Many of these use areas are directly adjacent to the streambank. Several user-defined trails leave this site providing access to other shoreline areas primarily up creek.

Use: High. Overnight, day use, and recreational mining (primarily during the month of August).

Habitat Issues/Concerns: This site contains large areas of bare soil with little to no understory vegetation in the primary area of use. Soils throughout the site are extremely compacted from vehicle and foot traffic and drainage is problematic leading to large puddles of mud and standing water in spots. Several trees are damaged and many have exposed roots due to soil loss and compaction from recreation use. Bank erosion is prevalent at several locations throughout DRS-01, likely from recreational miners moving equipment up and down the streambanks. In addition, some hydraulic mining has been done on both sides of the creek (not an allowed use), undercutting and eroding the banks.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rock to delineate appropriate vehicle access and parking areas,
- Use iceberging to focus camping in select locations, in particular away from the streambank, and to help minimize site creep,
- Revegetate the most heavily damaged streambanks,
- Remove the user-defined campfire rings,
- Formalize access to the creek in four streambank locations (including one kayak launch) and
- Add an informational kiosk, metal campfire rings and at least one bear box.

Associated Sullivan Creek Restoration Actions: This site will likely be a staging area and access point for construction of engineered log jams, large woody debris (LWD) placement, bank improvements downstream to protect Sullivan Lake Road, and replacement of the North Fork Sullivan Creek culvert with a fish passable structure. Up to 100 pieces of LWD up to 50 feet in length and 2 feet in diameter with rootwads could be placed in this reach. Up to 20 boulders may also be used. Treatment is anticipated in 2020 and 2021. Site conditions could change substantial following Mill Pond Dam removal in 2018.

Anticipated Outcome: While this site is heavily disturbed, the proposed restoration treatments would result in improved riparian and stream habitat. The replanted streambanks and the formalized creek access points will help control erosion and sedimentation. Delineated parking areas will restrict vehicle use to previously disturbed areas and limit the tendency of dispersed recreation sites to expand as use levels increase (i.e., site creep). Iceberging will also help control site creep. The addition of official campfire rings, bear boxes, and an informational kiosk will enhance the visitor experience at this site. Once implemented, the treatments will result in a reduction in the total affected area, but given the popularity of this site, occupancy or use levels are not anticipated to change substantially. That is, while fewer visitors may be capable of using the site at one time, the frequency of the site being occupied is unlikely to change.

Photographs:



DRS-01 – Photo 1.



DRS-01 – Photo 2.



DRS-01 – Photo 3.



DRS-01 – Photo 4.

Dispersed Recreation Site 02

Site Number: DRS-02

Size: Large; the approximate area of impact of DRS-02 is 4,253 ft².

Site Description: This dispersed recreation site is located at RM 3.2 and is 2.4 miles along Sullivan Lake Road. The site, along with DRS-03, is commonly called Moon Flats (see below). There are three distinct use areas along the internal access road that parallels Sullivan Lake Road. The internal access road first passes DRS-02A, then DRS-02, and finally dead-ends at DRS-3. The primary use areas are located on large, flat areas adjacent to a steep slope that leads to Sullivan Creek. Each use area has an existing user-defined campfire ring. Several user-defined trails provide access from the upper use areas to a lower terrace along the creek. Visitors have also created a walk-in use area on this lower terrace with at least one identified user-defined campfire ring and space for one or more tents. DRS-2 is a popular site for large recreational vehicles because of the easy parking access.

DRS 2 is located within the Moon Flats homestead site, archaeological site number 45FS1032. The USFS has formally determined that this site is not eligible for the National Register of Historic Places (NRHP). However, this determination was based on observed above ground cultural resources. Subsurface disturbance of this site is permissible, and constitutes no adverse effect on cultural resources, but construction methods at this site should avoid significant subsurface disturbance, if possible. This is because additional documentation could be required if during the course of subsurface excavation and construction additional artifacts or structural remains are uncovered, and they significantly differ in form, age or function from the materials observed previously. Constructing a surface road prism rather than excavating a road would eliminate any risk of delays or design changes due to cultural resources.

Use: High. Overnight and day use.

Habitat Issues/Concerns: Since DRS-02 and its associated use areas are located in a large field above the creek, riparian habitat issues are limited. However, these use areas have increased in size over the years from continued vehicle and pedestrian traffic. This increase in use has led to larger areas of trampled vegetation, and exposed and compacted soil, in particular along and adjacent to the internal road corridor. The large, grassy field setting of this dispersed site provides ample unconfined areas for visitor use to expand increasing the likelihood that these types of impacts will continue to proliferate. There are also sanitation issues at the site (a primitive toilet was observed at this site during the October 2014 field visit) and potential cultural resource concerns (see above and Appendix 2).

Proposed Treatment: The proposed treatments at this site include:

- Add barrier rocks to better delineate appropriate parking areas,

- Use iceberging to focus camping in select locations, in particular away from the streambank, and to help minimize site creep,
- Remove the user-defined campfire ring,
- Add bear boxes and campfire ring, and
- Define access to site by adding a gravel drive.

Associated Sullivan Creek Restoration Actions: No instream restoration anticipated in the vicinity of this site.

Anticipated Outcome: Delineating the parking areas with barrier rocks will help confine vehicle use at this site and minimize site creep. Adding bear boxes will facilitate visitor safety and enhance the overall recreation experience (at least for some visitors). At-one-time visitor capacity of the site may be slightly reduced by the delineated parking, but the size categorization of the site will not change (i.e., it's a large site now and will be a large site after the site enhancements are implemented). Additionally, the overall use level (frequency of the site being occupied) is unlikely to change because of the proposed restoration measures.

Photographs:



DRS-02 – Photo 1.



DRS-02 – Photo 2.



DRS-02 – Photo 3.



DRS-02 – Photo 4.

Dispersed Recreation Site 02A

Site Number: DRS-02A

Size: Small; the approximate area of impact of DRS-02A is 4,665 ft².

Site Description: This dispersed recreation site, along with DRS-02 and DRS-03, is located at RM 3.2 and at mile 2.4 of Sullivan Lake Road. The site makes use of a relatively flat area immediately on the right-hand side of the internal road that provides access to the dispersed recreation sites in the Moon Flats area (see description in DRS-02). There are remnant vehicle tracks and indentations in the ground indicating where vehicles periodically access the site. In addition, there is a user-defined campfire ring and at least one light user-defined trail that provides access to Sullivan Creek. The site has space for one to two tents, or a vehicle with a small camper-trailer.

Use: Low; while use at the adjacent primary use area (DRS-02) at Moon Flats is high, this site likely receives lower use levels (based on observed impacts and anecdotal observations) and only when DRS-02 is at capacity (i.e., this site likely functions in part as an overflow site for when DRS-02 is in use). Overnight and day use.

Habitat Issues/Concerns: DRS-02A is not located directly on Sullivan Creek and so riparian and other habitat issues are limited. Since use tends to be more limited at DRS-02A compared to DRS-02, there is less evidence of trampled vegetation and exposed/compacted soil at this time. That said, this site shares similar characteristics to DRS-02 (e.g., grassy field with unconfined areas for expanded visitor use) and so as use potentially increases in the future, the chance of habitat impacts will also increase. Also, the clearing is recorded as the location of a 20th century homestead and archaeological site. However, the site has been previously determined as Not Eligible for the National Register of Historic Places. Modification of the meadow will not constitute an adverse effect under Section 106 of the National Historic Preservation Act. (see DRS-02 and Appendix 2).

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rock to delineate appropriate vehicle access and parking areas,
- Remove the user-defined campfire rings,
- Add metal campfire ring and a bear box, and
- Add a restroom near DRS-02A that would serve all dispersed recreation sites in the Moon Flats area, as well as others in the vicinity (e.g., DRS-01, DRS-04, etc.).

Associated Sullivan Creek Restoration Actions: No instream restoration anticipated in the vicinity of this site.

Anticipated Outcome: Adding barrier rocks will help delineate appropriate visitor use areas at DRS-02A and help confine potential impacts to these areas. Similar to DRS-02,

adding a metal campfire ring and providing a bear box will help improve visitor safety and enhance the overall recreation experience at the site. Formalizing this site will add overnight capacity to help compensate for overnight capacity losses at other areas along Sullivan Creek. This will likely induce higher levels of use compared to current levels. As such, moderate to high use levels may be expected in the future.

Photographs:



DRS-02A – Photo 1.



DRS-02A – Photo 2.



DRS-02A – Photo 3.

Dispersed Recreation Site 03

Site Number: DRS-03

Size: Medium; the approximate area of impact of DRS-03 is 7,375 ft².

Site Description: This dispersed recreation site is accessed off Sullivan Lake Road at mile 2.4 (same access as DRS-02). It is located where an internal access road through DRS-02 dead-ends at a relatively flat, forested terrace above Sullivan Creek. Groups using DRS-02 sometimes prohibit access to this site. This site is also commonly referred to as Moon Flats and is located within the forest cover that delineates the edge of the large field that typifies the entire Moon Flats area. There is one user-defined campfire ring at the site and several user-defined trails provide access from the site downslope to the creek.

Use: High. Overnight and day use.

Habitat Issues/Concerns: This site contains large areas of bare soil with little to no understory vegetation in the primary area of use. Soils throughout the site are extremely compacted from vehicle and foot traffic. Some of the trees are damaged and have exposed roots from visitor use. Impacts (trampled vegetation, exposed soil, etc.) appear to be expanding into adjacent areas.

Proposed Treatment: The proposed treatments at this site include:

- Add barrier rocks to better delineate appropriate parking areas and create separation from camping areas,
- Formalize access to the creek near streambank,
- Create a vehicle turn-around,
- Use light iceberging (no digging due to presence of large trees and exposed roots) to pull use away from the steep slope to the creek,
- Remove the user-defined campfire rings, and
- Add a bear box and campfire ring.

Associated Sullivan Creek Restoration Actions: No instream restoration anticipated in the vicinity of this site.

Anticipated Outcome: Delineating the parking area with barrier rocks will help confine vehicle use and keep vehicles away from the trees (and exposed roots) and steep slopes at this site. The light iceberging will help restore vegetation along the top of the steep slope to the creek. Adding a bear box will facilitate visitor safety and enhance the overall recreation experience (at least for some visitors). At-one-time visitor capacity and overall use of the site is unlikely to change because of the proposed restoration measures.

Photographs:



DRS-03 – Photo 1.



DRS-03 – Photo 2.



DRS-03 – Photo 3.



DRS-03 – Photo 4.

Dispersed Recreation Site 04

Site Number: DRS-04

Size: Medium; the approximate area of impact of DRS-04 is 2,515 ft².

Site Description: This dispersed recreation site is located at RM 3.66 and 2.8 miles along Sullivan Lake Road. There is a small pull-out within the forest on the left-hand side of the internal access road at this site immediately after turning off Sullivan Lake Road. The internal access road continues to a small bench along Sullivan Creek where there are three distinct small use areas. The internal access road is approximately 800 feet long, and is steep and rutted in places with trees and shrubs encroaching in several places.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: The three small use areas at the end of the internal access road at this site are located along the Sullivan Creek streambank and display trampled vegetation, exposed and compacted soil, and streambank erosion that is likely contributing sediment to the creek. The inaccessibility (due to the poor condition of the internal access road) of these use areas also poses a public safety risk as the site tends to be hard to access for monitoring and enforcement purposes. Habitat issues are minor at the small pull-out area near Sullivan Lake Road, though there is some vegetation loss and exposed soil.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rocks to close the internal road just beyond the small pull-out,
- Rip road for 80 feet beyond barrier (this would prevent vehicles from accessing the lower bench area at this site.), and
- Provide a bear box and campfire ring.

Associated Sullivan Creek Restoration Actions: Prior to closure and decommissioning of the internal road, it may be used as access for LWD placement in Sullivan Creek. Up to 50 pieces of LWD could be placed at the site using an excavator. Implementation is anticipated in 2020 and 2021.

Anticipated Outcome: Closing the internal road to the lower use areas will ultimately improve riparian and creek habitat by limiting access to these areas. The total capacity of this site will be reduced by the proposed treatment since the three smaller use areas near the creek will be inaccessible (accordingly, the size of the site will be reduce from medium to small). However, total use levels are not anticipated to change substantially (currently low and likely to remain low in the future), and overall visitor and staff (USFS, law enforcement, etc.) safety will improve.

Photographs:



DRS-04 – Photo 1.



DRS-04 – Photo 2.

Dispersed Recreation Site 05

Site Number: DRS-05/USFS 01

Size: Large (combination of both use areas at this site); the approximate area of impact of DRS-05 is 11,410 ft².

Site Description: This dispersed recreation site is located at RM 6.18 and 0.3 miles along Sullivan Creek Road. The site contains two distinct use areas, an upper use area above Sullivan Creek near Sullivan Creek Road and a lower use area on the banks of Sullivan Creek. The upper use area has a user-defined campfire ring and a metal bear box. The lower use area is accessed via an internal road and has a user-defined campfire ring. A short, but steep user-defined trail provides access from the lower use area to Sullivan Creek.

Use: High. Overnight and day use. Lower site provides access to the creek for angling.

Habitat Issues/Concerns: Recreation has caused vegetation trampling and loss, and exposed soil and compaction at both the upper and lower use areas of this dispersed site. The user-defined creek access trail at the lower use area also displays erosion and is likely contributing sediment to the creek.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rocks to delineate parking/vehicle access at the upper use area,
- Add iceberging around the periphery of the upper use area to help focus recreation use,
- Remove the user-defined campfire ring,
- Move the location of the existing bear box at the upper use area and add a campfire ring,
- Use barrier rocks to close the internal access road to the lower use area,
- Rip and revegetate the internal access road and lower use area,
- Iceberg the lower camp area, and
- Retain pedestrian access from the upper use area to the lower use area and creek. This access will be designed to direct runoff into the forest rather than down the path and into the creek.

Associated Sullivan Creek Restoration Actions: The lower site provides a potential access point for LWD placement in Sullivan Creek. Up to 25 pieces of LWD could be placed at this location with an excavator. No instream restoration work will be accessed from the upper portion of the site, however, it could potentially be used for staging. Instream restoration is anticipated to occur in 2018 and 2019.

Anticipated Outcome: The forest habitat at the upper use area will improve over time by restricting vehicle access to the site and iceberging the periphery. Closing vehicle

access to the lower use area will likely reduce use of the site, which in turn will help reduce erosion and sedimentation. Revegetating the internal access road and lower use area will improve habitat and the aesthetics of the area. Since the lower use area will be closed to vehicle use, it is less likely to continue to be used for overnight purposes (though overnight use will not specifically be prohibited). As such, the restoration actions will reduce the total capacity of the site (from large to small) and will likely result in lower overall use levels (from high to moderate).

Photographs:



DRS-05 – Photo 1.



DRS-05 – Photo 2.



DRS-05 – Photo 3.



DRS-05 – Photo 4.

Dispersed Recreation Site 06

Site Number: DRS-06

Size: Small; the approximate area of impact of DRS-06 is 4,240 ft².

Site Description: This dispersed recreation site is located at RM 6.93 and 1.0 miles along Sullivan Creek Road. It is a small site adjacent to the road with parking only available on the road shoulder. There is a user-defined campfire ring and a user-defined trail that provides access from the primary use area to the creek.

Use: Low. Day use only (USFS previously closed this site to overnight use).

Habitat Issues/Concerns: The USFS previously completed some restoration actions and closed this site to overnight use. This combination of actions has helped with tree, shrub, and other vegetation regeneration at the site. While use is likely low at this site, the presence of the campfire ring and user-defined creek access trail indicate that visitors still use the site and that it may be susceptible to future impacts (vegetation trampling, tree damage, soil compaction, etc.).

Proposed Treatment: The proposed treatments at this site include:

- Maintain closure to overnight camping,
- Iceberg the perimeter to limit site creep,
- Remove the user-defined campfire ring, and
- Maintain pedestrian access to the creek. This access will be designed to direct runoff into the forest rather than down the path and into the creek.

The site will remain day use only.

Associated Sullivan Creek Restoration Actions: No instream restoration is planned for this site because it is already on a trajectory toward recovery and it is directly upstream of a bridge.

Anticipated Outcome: The proposed restoration actions will help limit future recreation-related habitat degradation at this site. These actions are unlikely to result in changes to overall recreation use.

Photographs:



DRS-06 – Photo 1.



DRS-06 – Photo 2.

Dispersed Recreation Site 07

Site Number: DRS-07/USFS 03

Size: Small; the approximate area of impact of DRS-07 is 9,225 ft².

Site Description: This dispersed recreation site is located at RM 7.15 and 1.2 miles along Sullivan Creek Road. An approximately 120-foot-long internal access road leads from Sullivan Creek Road to the primary use area at this site. The primary use area sits on a forested bench above Sullivan Creek. There is a user-defined campfire ring and a metal bear box at the site. Several user-defined trails radiate from the primary use area and provide pedestrian access to Sullivan Creek.

Use: High. Overnight and day use.

Habitat Issues/Concerns: The USFS previously placed barrier rocks to help delineate parking at this site. However, the primary use area at this dispersed site exhibits typical overuse characteristics including trampled vegetation, vegetation loss and tree damage, and exposed and compacted soil. Furthermore, there has been a proliferation of user-defined creek access trails at this site.

Proposed Treatment: The proposed treatments at this site include:

- Add additional barrier rocks to further delineate parking,
- Iceberg along the periphery of the site closest to the creek,
- Maintain existing bear box and add campfire ring,
- Add slash to block access for off road vehicles, and
- Maintain pedestrian access to the creek. This access will be designed to direct runoff into the forest rather than down the path and into the creek.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site as current fish habitat conditions are excellent.

Anticipated Outcome: The additional barrier rocks will help confine vehicle use to appropriate areas at this site. The iceberging will help limit site creep and will help areas along the periphery of the site revegetate over time. Overall, the restoration actions will improve habitat conditions. The improved habitat and aesthetic conditions at the site may enhance the recreation experience for some visitors. Capacity and recreation use levels are unlikely to change due to the restoration actions at this site.

Photographs:



DRS-07 – Photo 1.



DRS-07 – Photo 2.



DRS-07 – Photo 3.



DRS-07 – Photo 4.

Dispersed Recreation Site 08

Site Number: DRS-08/USFS 04

Size: Small; the approximate area of impact of DRS-08 is 3,720 ft².

Site Description: This dispersed recreation site is located at RM 7.24 and 1.3 miles along Sullivan Creek Road. It is located on the north side of Sullivan Creek Road and thus does not provide direct access to the creek. There is a user-defined campfire ring and a metal bear box at this site. Two user-defined trails lead from the bear box to Sullivan Creek Road. Near the entrance to this site, there is a small pull-out with a single vault CXT restroom. The restroom is intended to be used by all nearby visitors, not just those staying at DRS-08.

Use: High. Overnight and day use.

Habitat Issues/Concerns: The user-defined trails between this site and Sullivan Creek Road may induce higher levels of use on these trails, including motorized use, but otherwise habitat issues are minor at this site.

Proposed Treatment: The proposed treatments at this site include:

- Add several barrier rocks to limit vehicular use of the user-defined trails between the bear box and Sullivan Creek Road and,
- Remove the existing user-defined campfire ring and install a new campfire ring.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site.

Anticipated Outcome: The addition of barrier rocks at the Sullivan Creek Road terminus of the user-defined trails will help limit any potential disturbance from vehicle use of these trails. This action will not change the capacity or overall use level at this dispersed recreation site.

Photographs:



DRS-08 – Photo 1.



DRS-08 – Photo 2.



DRS-08 – Photo 3.



DRS-08 – Photo 4 (nearby CXT).

Dispersed Recreation Site 09

Site Number: DRS-09/USFS 05

Size: Large based on availability of parking along road (6 to 8 vehicles can park along the road adjacent to this site); the approximate area of impact of DRS-09 is 2,050 ft².

Site Description: This dispersed recreation site is located at RM 7.33 and 1.5 miles along Sullivan Creek Road. The USFS previously placed barrier rocks and barriers at the entrance to this site so parking is only available on a widened shoulder of Sullivan Creek Road. The remnants of a cobble road provide pedestrian access to the primary use area at this dispersed recreation site. The primary use area is located on a flat terrace adjacent to Sullivan Creek and currently has one user-defined campfire ring. Breaks in the streambank vegetation allow direct visitor access from the use area to Sullivan Creek.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: The primary use area of this dispersed recreation site is located in the stream overflow channel and may be subject to periodic flooding. Furthermore, visitor use has resulted in vegetation loss and soil compaction along the streambank. These impacts may contribute to sedimentation. Additionally, this site was filled with trash and other camping debris during the October 2014 field visit (see photos).

Proposed Treatment: The proposed treatment is to close this site by completing the following actions:

- Add additional barrier rocks to further prohibit access,
- Rip and revegetate access road,
- Remove the user-defined campfire ring, and
- Iceberg the primary use area.

Associated Sullivan Creek Restoration Actions: This site provides access for potential placement of LWD to reactivate a side-channel, and create pools and habitat complexity. Up to 50 pieces of LWD could be placed in close proximity to this site with an excavator. LWD may also be recruited through selective harvest from the riparian forest or through helicopter wood placement. Instream restoration is anticipated to occur in 2018 and 2019.

Anticipated Outcome: Given the location of this site within the active stream migration channel, the proposed closure of this site will help improve riparian and creek habitat over time by limiting recreation-related impacts. The closure of this site will reduce recreation capacity and use, but ultimately may enhance the recreation experience by providing a higher quality and safer visitor experience throughout the Sullivan Creek region.

Photographs:



DRS-09 – Photo 1.



DRS-09 – Photo 2.



DRS-09 – Photo 3.



DRS-09 – Photo 4.

Dispersed Recreation Site 10

Site Number: DRS-10/USFS 06

Size: Medium; the approximate area of impact of DRS-10 is 14,540 ft².

Site Description: This dispersed recreation site is located at RM 7.43 and 1.6 miles along Sullivan Creek Road. It sits directly on the forested streambank of Sullivan Creek. The primary use area at this site includes three lobes and that may allow several groups (or one large group) to use this site concurrently. Each lobe has a user-defined campfire ring and space for parking (vehicle, RVs, etc.) and/or tents.

Use: High. Overnight and day use.

Habitat Issues/Concerns: While the USFS previously placed barrier rocks and boulders to help focus use to appropriate areas, recreational effects are prevalent at this dispersed site. Vegetation loss, heavy tree damage, and exposed and compacted soil are evident. Furthermore, the site sits within the active stream migration channel and recreational use is exacerbating soil erosion and the undercutting of the streambank.

Proposed Treatment: The proposed treatment is to close this site by completing the following actions:

- Add additional barrier rocks to further prohibit access,
- Remove the existing user-defined campfire rings,
- Rip areas without mature trees and add iceberging to allow the main use area to revegetate naturally,
- Add barrier rocks and slash to further discourage camping, and
- Revegetate streambank.

Associated Sullivan Creek Restoration Actions: This site provides access for LWD placement to protect the road directly upstream and create habitat. LWD will likely be added to create log jams and reactivate a side channel. Up to 50 pieces of LWD could be placed in close proximity to this site with an excavator. LWD may also be recruited through selective harvest from the riparian forest or through helicopter wood. Instream restoration is anticipated to occur in 2018 and 2019. This site will also be used for staging live cuttings during implementation of the landslide bioengineering project in 2015 and 2016 upstream and downstream of the site across Sullivan Creek Road.

Anticipated Outcome: Given the location of this site within the active flood zone, the proposed closure of this site will help improve riparian and creek habitat over time by limiting recreation-related effects. The closure of this site will reduce recreation capacity and use, but ultimately may enhance the recreation experience by providing a higher quality and safer visitor experience throughout the Sullivan Creek region.

Photographs:



DRS-10 – Photo 1.



DRS-10 – Photo 2.



DRS-10 – Photo 3.



DRS-10 – Photo 4.

Dispersed Recreation Site 11

Site Number: DRS-11/USFS 07

Size: Medium; the approximate area of impact of DRS-11 is 10,900 ft².

Site Description: This dispersed recreation site is located at RM 7.82 and 2 miles along Sullivan Creek Road. The primary use area sits on a relatively flat area between Sullivan Creek Road and Sullivan Creek. There are two user-defined campfire rings at this site and space for two to three tents (or a large RV). User-defined trails provide access from the site to the creek.

Use: High. Overnight and day use.

Habitat Issues/Concerns: The USFS previously added some barrier rocks to this site to help delineate appropriate areas for recreational use. Nonetheless, vegetation at this dispersed recreation site is severely trampled and non-existent in areas. While some ground-level vegetation remains as a buffer along the streambank, much of the site is exposed and compacted soil. Several of the trees are damaged and exhibit exposed roots.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rock to delineate parking area,
- Add iceberging around the periphery of the current impact area (to reduce the size and extent of impacts),
- Remove the existing user-defined campfire rings,
- Add a bear box and campfire ring,
- Retain three to four of the existing pedestrian access routes to the river (these routes will be designed to direct runoff into the forest rather than down the path and into the creek), and
- Revegetate the streambank and restore vegetation along creek access routes.

Associated Sullivan Creek Restoration Actions: LWD placement of up to 20 pieces using an excavator, selective riparian harvest, or a helicopter is a possibility at this site. Instream restoration would occur in 2018 or 2019.

Anticipated Outcome: The proposed addition of barrier rocks to delineate the parking area will help keep vehicles from driving further into the site toward the streambank. This action, along with adding iceberging to better confine recreation use within a smaller footprint will help the understory recover throughout this site. Revegetating the streambank will help prevent continued erosion and sedimentation and improve riparian habitat. The restored habitat and associated aesthetic improvements may enhance the recreation experience for some visitors to this site. The proposed treatments will slightly reduce the capacity of this site by constraining the area available for parking and camping (likely changing the size of the site from medium to small). However, total use levels are not anticipated to change substantially.

Photographs:



DRS-11 – Photo 1.



DRS-11 – Photo 2.



DRS-11 – Photo 3.



DRS-11 – Photo 4.

Dispersed Recreation Site 12

Site Number: DRS-12/USFS 08

Size: Medium; the approximate area of impact of DRS-12 is 16,170 ft².

Site Description: This dispersed recreation site is located at RM 8.05 and 2.1 miles along Sullivan Creek Road. An internal access road from Sullivan Creek Road provides vehicular access to the primary use areas of this site. There are two primary use areas at this site, one near a widened parking area and a second one adjacent to Sullivan Creek. Both areas are accessible by vehicle, though pedestrian access from the first to the second use area is also possible. Each of the use areas has a user-defined campfire ring. There is a metal bear box located near the first use area (closer to Sullivan Creek Road).

Use: High. Overnight and day use.

Habitat Issues/Concerns: Both of the primary use areas of this dispersed recreation site show signs of visitor use and associated ecological degradation. Vegetation has been trampled and exposed soil delineates the use areas. Much of the riparian vegetation at the second, lower use area has been crushed and the streambank is eroding in several locations. Furthermore, this lower use area is prone to flooding.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rock to delineate parking area (provide enough space for a vehicle turn-around),
- Iceberg and revegetate the main use area (in active flood zone).
- Remove the user-defined campfire ring near the parking area, and add a campfire ring near the primary use area (out of the overflow channel zone),
- Relocate bearbox so it is near the campfire ring,
- Maintain pedestrian access from the site to the creek (designed to direct runoff into the forest rather than down the trail and into the creek), and
- Revegetate the streambank.

Associated Sullivan Creek Restoration Actions: The channel is unconfined adjacent to the site. Habitat is currently of high quality. Up to 20 additional pieces of LWD could be placed to increase floodplain connectivity using an excavator, selective riparian harvest, or helicopter.

Anticipated Outcome: The proposed addition of barrier rocks and iceberging to better confine recreation use within a smaller footprint away from the creek and revegetation will help recover this site. Revegetating the streambank will help prevent continued erosion and sedimentation and improve riparian habitat condition. The restored habitat and associated aesthetic improvements may enhance the recreation experience for some visitors to this site. The proposed treatments will reduce the capacity of this site

by constraining the area available for parking and camping. As such, the restoration actions will reduce the total capacity of the site (from medium to small). However, total use levels are not anticipated to change substantially as a result of the proposed actions.

Photographs:



DRS-12 – Photo 1.



DRS-12 – Photo 2.



DRS-12 – Photo 3.



DRS-12 – Photo 4.

Dispersed Recreation Site 13

Site Number: DRS-13/USFS09

Size: Medium; the approximate area of impact of DRS-13 is 8,110 ft².

Site Description: This dispersed recreation site is located at RM 8.21 and 2.3 miles along Sullivan Creek Road. It is across Sullivan Creek Road from DRS-14 and a single vault CXT restroom. The site includes two primary use areas that are connected by a user-defined pedestrian path, though it appears vehicles may occasionally use this route. The first use area is located within and adjacent to a widened and cleared parking area. There is a user-defined campfire ring here. The second use area is located closer to Sullivan Creek and currently has a user-defined campfire ring and a metal bear box. User-defined trails continue from this second use area to Sullivan Creek.

Use: High. Overnight and day use.

Habitat Issues/Concerns: The first use area is largely clear of vegetation, as it is the end of a short spur road that provides access to this dispersed recreation site. The soil is compacted in this area from repeated vehicular and pedestrian use. The forested area adjacent to this first use area, the user-defined route connecting the use areas, and the second use area are all delineated by a lack of ground vegetation and exposed soil.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rock to delineate parking area,
- Iceberg and revegetate the current use area (in the flood prone area),
- Rip (avoiding mature trees) the old road leading from upper site,
- Remove the user-defined campfire ring and add a metal campfire ring,
- Relocate the bear box so it is near the campfire ring, and
- Maintain pedestrian access from the site to the creek. This path will be designed to direct runoff into the forest rather than down the path and into the creek.

Associated Sullivan Creek Restoration Actions: This site provides access for a small amount of LWD placement (approximately 20 pieces) and potential bank improvements to protect the road and improve habitat conditions directly upstream of the site.

Anticipated Outcome: Similar to proposed actions at other dispersed recreation sites in the Sullivan Creek region, the proposed addition of barrier rocks and iceberging, as well as active revegetation to better confine recreation use within a smaller footprint will help the understory recover throughout this site. The restored habitat and associated aesthetic improvements may enhance the recreation experience for some visitors to this site. The proposed treatments will slightly reduce the capacity of this site by constraining the area available for parking and camping. The restoration actions will reduce the total capacity of the site from medium to small. However, total use levels are not anticipated to change substantially as a result of the proposed actions.

Photographs:



DRS-13 – Photo 1.



DRS-13 – Photo 2.



DRS-13 – Photo 3.



DRS-13 – Photo 4.

Dispersed Recreation Site 14

Site Number: DRS-14/USFS 10

Size: Large; the approximate area of impact of DRS-14 is 8,285 ft².

Site Description: This dispersed recreation site is located across from DRS-13 at RM 8.15 and 2.31 miles along Sullivan Creek Road. It is on the opposite side of the road and so provides little direct access to the creek. The site is located on a short spur road that at one time likely functioned as a pull-through. One end of the road has been blocked essentially creating the opportunity for a dispersed use area. The area is flat and partially delineated by a steep slope along the western and southern periphery of the site. There are two user-defined campfire rings, a metal bear box, and several user-defined trails that lead up slope from the site. There is a single vault CXT restroom and large bulletin board near the entrance to this dispersed recreation site. The CXT is intended to serve all nearby visitors, not just those at this site.

Use: High. Overnight and day use.

Habitat Issues/Concerns: There are only minor habitat concerns at this dispersed site stemming primarily from potential site creep (the tendency for the area of impact at a dispersed site to expand over time from use).

Proposed Treatment: The proposed restoration treatments at this site include:

- Clear vegetation and provide light grading along the closed portion of the existing spur road such that it again functions as a pull-through off of Sullivan Creek Road.
- Delineate four specific sites within the existing footprint of DRS-14 and along the spur road. Each site will provide an appropriate parking area, metal campfire ring, and bear box.
- Add barrier rocks to better define and delineate appropriate use areas at all existing and new use areas, and
- Remove the existing user-defined campfire rings.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site.

Anticipated Outcome: The re-opened spur road and delineation of four distinct use areas within the footprint of DRS-14 will help retain the overall existing recreation DRS capacity by helping offset lost overnight opportunities (from the closure of several DRSs) elsewhere along Sullivan Creek. The proposed addition of barrier rocks at this site will help minimize the potential for future site creep. While the size of each delineated use area at DRS-14 will likely be small, the site will retain its functionality as a large site since it may be used by individual small groups (e.g., one group per delineated area) or by larger groups (e.g., one large groups spread out over the four delineated use areas). As such, changes to capacity and recreation use levels are not anticipated as a result of implementing the proposed actions at this site.

Photographs:



DRS-14 – Photo 1.



DRS-14 – Photo 2.



DRS-14 – Photo 3.



DRS-14 – Photo 4.

Dispersed Recreation Site 15

Site Number: DRS-15/USFS 11

Size: Small; the approximate area of impact of DRS-15 is 2,635 ft².

Site Description: This dispersed recreation site is located at RM 8.37 and 2.4 miles along Sullivan Creek Road. It is located on the north side of Sullivan Creek Road and thus does not provide direct access to the creek. The small site currently has a user-defined campfire ring.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: The USFS previously placed barrier rocks and boulders to help focus dispersed recreation use at this site. However, there are continued minor habitat concerns at this site stemming primarily from potential site creep.

Proposed Treatment: The proposed restoration treatments at this site include:

- Adding barrier rocks to better define and delineate appropriate use areas ,
- Remove the existing user-defined campfire rings, and
- Adding a metal campfire ring and bear box.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site.

Anticipated Outcome: The proposed addition of barrier rocks at this site will help minimize the potential for future site creep. Changes to capacity and recreation use levels are not anticipated as a result of implementing the proposed action at this site.

Photographs:



DRS-15 – Photo 1.



DRS-15 – Photo 2.



DRS-15 – Photo 3.



DRS-15 – Photo 4.

Dispersed Recreation Site 16

Site Number: DRS-16/USFS 12

Size: Small; the approximate area of impact of DRS-16 is 2,090 ft².

Site Description: This dispersed recreation site is located at RM 8.6 and 2.8 miles along Sullivan Creek Road. It is located on the north side of Sullivan Creek Road across from DRS-17 and thus does not provide direct access to the creek. The small site currently has a user-defined campfire ring.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: There are only minor habitat concerns at this dispersed site stemming primarily from potential site creep.

Proposed Treatment: The proposed restoration treatments at this site include:

- Adding barrier rocks to better define and delineate appropriate use areas,
- Remove the existing user-defined campfire rings and install a metal campfire ring, and
- Add a bear box to the site.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site.

Anticipated Outcome: The proposed addition of barrier rocks at this site will help minimize the potential for future site creep. Providing a bear box will help foster appropriate visitor behavior and promote visitor safety. Changes to capacity and recreation use levels are not anticipated as a result of implementing the proposed action at this site.

Photographs:



DRS-16 – Photo 1.



DRS-16 – Photo 2.



DRS-16 – Photo 3.



DRS-16 – Photo 4.

Dispersed Recreation Site 17

Site Number: DRS-17/USFS 13

Size: Large; the approximate area of impact of DRS-17 is 16,670 ft².

Site Description: This dispersed recreation site is located at RM 8.69 and 2.81 miles along Sullivan Creek Road. The large, slightly undulating site sits on a forested terrace adjacent to Sullivan Creek. The primary use areas are concentrated near a central parking area and radiate to the banks of Sullivan Creek to the east and west/southwest. There are four user-defined campfire rings and a metal bear box at this site. Several user-defined trails provide access from the primary use areas to Sullivan Creek.

Use: High. Overnight and day use.

Habitat Issues/Concerns: Similar to many of the other highly used dispersed recreation sites, DRS-17 is marked by large contiguous areas with little to no understory vegetation and exposed soil. The soil is highly compacted in areas and many of the trees have exposed roots from continued recreational use of the site. The streambank at this site is eroded, in particular where visitors access the creek, and at least a portion of the use area is within the active stream channel migration zone.

Proposed Treatment: The proposed treatments at this site include:

- Focus recreational use at the site outside of the active stream migration channel,
- Use barrier rock to delineate parking area,
- Iceberg the western leg of the affected area (to reduce the size and extent of disturbance),
- Establish a user area in the eastern leg of the site and iceberg the periphery to define use,
- Maintain two pedestrian access paths from the primary use area to the creek. Access will be designed to direct runoff into the forest rather than down the paths and into the creek), and
- Remove the user-defined campfire ring near the creek (where it is susceptible to flooding), and add a campfire ring and maintain the bear box in the primary use area.

Associated Sullivan Creek Restoration Actions: LWD placement is anticipated at this site. USFS weirs will be modified or removed during restoration to increase pool abundance and habitat complexity. Restoration will likely be completed using an excavator. Up to 25 pieces will be placed in the site vicinity. LWD may also be selectively harvested from the riparian zone or placed from a helicopter to facilitate jam formation.

Anticipated Outcome: The proposed addition of barrier rocks and iceberging to better confine recreation use within a smaller footprint will help understory vegetation recover

throughout this site. Focusing recreational use outside of the active stream migration channel will improve riparian habitat. The restored habitat and associated aesthetic improvements may enhance the recreation experience for some visitors to this site. The proposed treatments will slightly reduce the capacity of this site by constraining the area available for parking and camping. This the capacity will change from a large to a medium. However, total use levels are not anticipated to change substantially as a result of the proposed actions; that is, this site will likely remain a popular site because it's large (so can accommodate larger groups), relatively flat, and provides easy access to the creek.

Photographs:



DRS-17 – Photo 1.



DRS-17 – Photo 2.



DRS-17 – Photo 3.



DRS-17 – Photo 4.

Dispersed Recreation Site 18

Site Number: DRS-18

Size: Small; the approximate area of impact of DRS-18 is 420 ft².

Site Description: This dispersed recreation site is located at RM 8.87 between DRS-17 and DRS-19. DRS-18 consists of a small parking area along the shoulder of Sullivan Creek Road and a user-defined trail from the road to the creek.

Use: Low. Day use only (the USFS previously closed this site to overnight use).

Habitat Issues/Concerns: The USFS previously completed restoration actions including iceberging. Given the degree and success of these previous restoration actions, habitat concerns at this dispersed recreation site are minimal.

Proposed Treatment: The proposed restoration treatment at this dispersed site includes adding barrier rocks to better limit vehicle access.

Associated Sullivan Creek Restoration Actions: LWD placement is anticipated at this site. USFS weirs will be modified or removed during restoration to increase pool abundance and habitat complexity. Restoration will likely be completed using an excavator. Up to 25 pieces will be placed in the site vicinity. LWD may also be selectively harvested from the riparian zone or placed from a helicopter to facilitate jam formation.

Anticipated Outcome: The previous restoration actions at this dispersed site have resulted in reduced recreation-related site degradation and improved habitat condition. The addition of more barrier rocks will help reinforce these previous restoration actions and maintain site integrity. The site will remain day use only and no changes to capacity and/or use levels are anticipated.

Photographs:



DRS-18 – Photo 1.



DRS-18 – Photo 2.



DRS-18 – Photo 3.



DRS-18 – Photo 4.

Dispersed Recreation Site 19

Site Number: DRS-19/USFS14

Size: Small; the approximate area of impact of DRS-19 is 4,065 ft².

Site Description: This dispersed recreation site is located at RM 8.91 and 3 miles along Sullivan Creek Road. The small site is located between the creek and Sullivan Creek Road. Parking is limited to the shoulder of Sullivan Creek Road at this site. There is a user-defined campfire ring and a well-worn bare area that connects Sullivan Creek Road to Sullivan Creek.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: This small dispersed recreation site lacks understory vegetation and riparian vegetation along the streambank. Soils are exposed and compacted, and eroding along the streambank.

Proposed Treatment: The proposed treatment is to close this site to overnight use and make it day use only. This would be accomplished by implementing the following actions:

- Use barrier rocks along Sullivan Creek Road to prevent vehicle access to the site (parking would be allowed along the shoulder),
- Iceberg the site to promote natural revegetation,
- Remove the existing user-defined campfire ring,
- Revegetate the streambank, and
- Maintain pedestrian access from Sullivan Creek Road to the creek. This path will be designed to direct runoff into the forest rather than down the path and into the creek.

Associated Sullivan Creek Restoration Actions: LWD placement is anticipated at this site. USFS weirs will be modified or removed during restoration to increase pool abundance and habitat complexity. Restoration will likely be completed using an excavator. Up to 25 pieces will be placed in the site vicinity. LWD may also be selectively harvested from the riparian zone or placed from a helicopter to facilitate jam formation.

Anticipated Outcome: Closing this site to overnight use would reduce degradation and restore habitat, while retaining some recreation opportunities (compared to a full closure). Prohibiting overnight use will result in a loss of camping capacity at this site, but overall use levels are unlikely to change substantially because of this modification (i.e., use levels are currently low and are anticipated to remain low post implementation).

Photographs:



DRS-19 – Photo 1.



DRS-19 – Photo 2.



DRS-19 – Photo 3.



DRS-19 – Photo 4.

Dispersed Recreation Site 20

Site Number: DRS-20/USFS 15

Size: Medium; the approximate area of impact of DRS-20 is 6,970 ft².

Site Description: This dispersed recreation site is located at RM 8.99 and 3.1 miles along Sullivan Creek Road. It is located on the north side of Sullivan Creek Road and thus does not provide direct access to the creek. The site currently has a user-defined campfire ring. There is a single vault CXT restroom nearby (immediate to the east along Sullivan Creek Road).

Use: Moderate. Overnight and day use.

Habitat Issues/Concerns: There are only minor habitat concerns at this dispersed site stemming primarily from potential site creep.

Proposed Treatment: The proposed restoration treatments at this site include:

- Adding barrier rocks to better define and delineate appropriate use areas,
- Remove the existing user-defined campfire rings and add a metal campfire ring, and
- Add a bear box to the site.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site.

Anticipated Outcome: The proposed addition of barrier rocks at this site will help minimize the potential for future site creep. Providing a campfire ring and bear box will help foster appropriate visitor behavior and promote visitor safety. Changes to capacity and recreation use levels are not anticipated as a result of implementing the proposed action at this site.

Photographs:



DRS-20 – Photo 1.



DRS-20 – Photo 2.



DRS-20 – Photo 3 (nearby CXT).



DRS-20 – Photo 4 (nearby CXT).

Dispersed Recreation Site 21

Site Number: DRS-21/USFS 17

Size: Small; the approximate area of impact of DRS-21 is 3,810 ft².

Site Description: This dispersed recreation site is located at RM 9.01 and 3.1 miles along Sullivan Creek Road immediately to the east of the intersection with Johns Creek (USFS 2200) Road. The site has a user-defined campfire ring, space for several tents, and direct access to Sullivan Creek.

Use: High. Overnight and day use.

Habitat Issues/Concerns: The USFS previously placed barrier rocks at the site to try to focus recreation use. However, the barrier rocks have provide little relief and the site continues to display heavy recreation-related effects including a lack of understory vegetation, trampled riparian vegetation, exposed and compacted soil, and areas of erosion along the streambank.

Proposed Treatment: The proposed treatment is to close this site to overnight use and make it day use only. This would be accomplished by implementing the following actions:

- Use barrier rocks along Sullivan Creek Road to prevent vehicle access to the site (parking would be allowed along the shoulder),
- Remove the existing user-defined campfire ring,
- Iceberg the site to promote natural revegetation,
- Revegetate the streambank, and
- Maintain pedestrian access from Sullivan Creek Road to the creek. This path will be designed to direct runoff into the forest rather than down the path and into the creek.

Associated Sullivan Creek Restoration Actions: LWD placement is anticipated at this site. USFS weirs will be modified or removed during restoration to increase pool abundance and habitat complexity. Restoration will likely be completed using an excavator. Up to 25 pieces will be placed in the site vicinity. LWD may also be selectively harvested from the riparian zone or placed from a helicopter to facilitate jam formation.

Anticipated Outcome: Closing this site to overnight use will help limit adverse effects and restore habitat, while retaining some recreation opportunities (compared to a full closure). Prohibiting overnight use will reduce DRS camping capacity. As such, it is reasonable to expect use levels to decrease in the future (i.e., use levels are currently high and are anticipated to be low post implementation).

Photographs:



DRS-21 – Photo 1.



DRS-21 – Photo 2.



DRS-21 – Photo 3.



DRS-21 – Photo 4.

Dispersed Recreation Site 21A

Site Number: DRS-21A

Size: Small; the approximate area of impact of DRS-21A is 650 ft².

Site Description: This new dispersed recreation site is located at RM 8.99 approximately 3.1 miles along Sullivan Creek Road (note: this site was not included in the original 38 identified DRSs). It is located on the north side of the road with no direct access to the creek. The site is located between DRS-20 and USFS Site 16 (not a part of the group of dispersed sites included in the Initial Restoration Plan). Currently, the area proposed as DRS-21A is not used as a dispersed recreation site, but is used by some visitors at DRS-20 to access the restrooms at USFS Site 16 (single vault CXT restroom). A short user-defined trail through this area connects DRS-20 to the restroom at USFS Site 16.

Use: Low since this area is currently only used as a cut-through from DRS-20 to the restroom at USFS Site 16. Use can reasonably be expected to increase when the area is formalized. Overnight and day use.

Habitat Issues/Concerns: There are only minor habitat concerns (some vegetation trampling along the user-defined trail) at this dispersed site at this time.

Proposed Treatment: The proposed treatments at this site include:

- Clear an area along the current user-defined trail to create a small dispersed recreation site;
- Use barrier rock to delineate the new dispersed recreation site and parking area (near the existing restroom at USFS Site 16),
- Use barrier rock to delineate appropriate vehicle access and parking areas, and
- Add a metal campfire ring and a bear box.

Associated Sullivan Creek Restoration Actions: No instream restoration anticipated in the vicinity of this site.

Anticipated Outcome: Delineating the footprint of this new dispersed recreation site will help confine use to appropriate areas and minimize future impacts. Providing a campfire ring and bear box will help foster appropriate visitor behavior and promote visitor safety. Formalizing this site will add overnight capacity to help compensate for overnight capacity losses at other areas along Sullivan Creek. This will likely induce higher levels of use compared to current levels (from low to moderate).

Photographs:



DRS-21A – Photo 1.



DRS-21A – Photo 2.



DRS-21A – Photo 3.



DRS-21A – Photo 4.

Dispersed Recreation Site 22

Site Number: DRS-22/USFS 18

Size: Small; the approximate area of impact of DRS-22 is 1,060 ft².

Site Description: This dispersed recreation site is located across Sullivan Creek from DRS-21 at RM 3.1 and about 9.03 miles along Sullivan Creek Road. It is accessed by crossing a bridge over Sullivan Creek (USFS Road 2200500). The site sits on a small, flat bench above Sullivan Creek and currently has a user-defined campfire ring and user-defined trails from the site to the creek.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: The USFS previously placed barrier rocks along the road entrance at this site. While this restoration action has prevented vehicles from accessing the site, recreational use has continued to degrade the site. There is limited understory vegetation and the riparian vegetation has been trampled where visitors access the creek. Soil is exposed and compacted, and eroding along the streambank.

Proposed Treatment: The proposed treatment is to close this site to all recreational use. This would be accomplished by implementing the following actions:

- Maintain existing barrier rocks and add others along USFS 2200500 Road to prevent access to the site,
- Iceberg to promote natural revegetation,
- Remove the existing user-defined campfire ring, and
- Revegetate along the damaged streambank.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site.

Anticipated Outcome: Closing this site to recreational use will help limit recreation use effects and restore habitat. The closure of this site will reduce recreation capacity and use (which is already low at this site), but ultimately may enhance the recreation experience by providing a higher quality and safer visitor experience throughout the Sullivan Creek region.

Photographs:



DRS-22 – Photo 1.



DRS-22 – DRS – Photo 2.



DRS-22 – Photo 3.



DRS 22 – Photo 4.

Dispersed Recreation Site 23

Site Number: DRS-23/USFS 19

Size: Large; the approximate area of impact of DRS-23 is 18,400 ft².

Site Description: This dispersed recreation site is located at RM 8.94. It is accessed via the USFS 2200 Road off Sullivan Creek Road around mile 8.94. The site makes use of an old spur road and other cleared areas (likely used as staging areas for assorted logging and development actions within the National Forest) to provide a large, flat, and mostly open dispersed use setting. A portion of the site is located within the forested area between the cleared areas and Sullivan Creek. There are two user-defined campfire rings and a metal bear box at the site. There are also user-defined trails leading from the site to the creek. Given the large size and relatively secluded location of the site it often functions as a de facto group site.

Use: High. Overnight and day use.

Habitat Issues/Concerns: Since this dispersed site is not located directly along Sullivan Creek, potential creek-related habitat concerns are likely minor. That said, the popularity of the site has resulted in and increased the risk of site creep and related effects (e.g., vegetation loss, soil exposure, etc.).

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rocks to better delineate parking and use areas,
- Iceberg the western use area,
- Rip and replant the spur road, while retaining a vehicle turn-around,
- Close unofficial loop road with boulders and slash,
- Remove the existing user-defined campfire rings, and
- Add campfire ring and maintain the bear box.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site.

Anticipated Outcome: The proposed addition of barrier rocks at this site will help minimize the potential for future site creep. Ripping and replanting the spur road will improve habitat and aesthetic conditions at the site. The proposed treatments will reduce the capacity of the site by constraining the area available for parking and camping. Thus the capacity of the site will change from large to medium. However, total use levels are not anticipated to substantially change.

Photographs:



DRS-23 – Photo 1.



DRS-23 – Photo 2.



DRS-23 – Photo 3.



DRS-23 – Photo 4.

Dispersed Recreation Site 24

Site Number: DRS-24/USFS 20

Size: Small; the approximate area of impact of DRS-24 is 8,910 ft².

Site Description: This dispersed recreation site is located at RM 9.09 and 3.2 miles along Sullivan Creek Road. A short spur road provides access to the primary use area at this site. The primary use area is within an active side channel of Sullivan Creek. As such, a portion of the site is inundated and unusable. There is a user-defined campfire ring and user-defined access to Sullivan Creek at this site. Parking is only available along the shoulder of Sullivan Creek Road.

Use: Low. Day use only (USFS previously closed this site to overnight use).

Habitat Issues/Concerns: The USFS previously blocked vehicular access to this site by placing barrier rocks and boulders at the entrance and prohibiting overnight use. The understory vegetation at this site and along the now closed access road is recovering. As noted previously, a side channel of Sullivan Creek cuts through the site and it is within the larger active channel migration zone. As such, habitat concerns and the threat of potential recreation-related impacts remain high.

Proposed Treatment: The proposed restoration treatment is to fully close this dispersed recreation site. The treatments here include:

- Add additional barrier rocks along Sullivan Creek Road,
- Rip and plant existing access road,
- Remove the existing user-defined campfire ring, and
- Create an earthen berm and trench to further restrict vehicle access.

Associated Sullivan Creek Restoration Actions: Selective harvesting of several trees to increase LWD loading and potentially to direct additional flow into the new side-channel is anticipated adjacent to this site.

Anticipated Outcome: Closing this site to recreational use will help limit site degradation and restore habitat. While this site was previously closed to overnight use, the full closure will further reduce recreation capacity and use (which is already low at this site). As with other dispersed recreation site closures along Sullivan Creek, this closure may enhance the overall recreation experience by providing a higher quality and safer visitor experience throughout the region.

Photographs:



DRS-24 – Photo 1.



DRS-24 – Photo 2.



DRS-24 – Photo 3.



DRS-24 – Photo 4.

Dispersed Recreation Site 25

Site Number: DRS-25/USFS 21

Size: Large; the approximate area of impact of DRS-25 is 11,960 ft².

Site Description: This dispersed recreation site is located at RM 9.32 and 3.3 miles along Sullivan Creek Road. A short access road provides vehicular access from Sullivan Creek Road to the primary use area at this site. The site lies along a large, relatively flat area along Sullivan Creek. There are two user-defined campfire rings and multiple locations that are likely used for camping (either to pitch a tent or park a trailer/RV). User-defined trails from the main use area provide access to Sullivan Creek.

Use: High. Overnight and day use.

Habitat Issues/Concerns: This site contains large areas of bare soil with little to no understory vegetation in the primary area of use. Soils throughout the site are extremely compacted from vehicle and foot traffic. Several trees are damaged and many have exposed roots due to soil loss and compaction from recreation use. Bank erosion is prevalent where visitors access the creek.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rock to delineate the parking and turnaround area, as well as prohibit off-highway vehicle access to the site along Sullivan Creek Road,
- Add iceberging around the periphery of the current impact area (to reduce the size and extent of impacts),
- Remove the four user-defined campfire rings,
- Add a campfire ring and bear box in the primary use area, and
- Maintain pedestrian access from the site to the creek and forest. This access will be designed to direct runoff into the forest rather than down the path and into the creek.

Associated Sullivan Creek Restoration Actions: This site provides access to Pass Creek and for proposed restoration in and in proximity to Wassen Creek. Several log jams are anticipated in this reach with up to 50 pieces of LWD. Jams adjacent to the road will likely be placed with an excavator. Selective harvest from the riparian zone and placement of LWD from a helicopter will also be employed in this reach to increase LWD loading, pools, and habitat complexity.

Anticipated Outcome: Adding barrier rocks and iceberging will help confine recreation use within a smaller footprint and will help the understory recover throughout this site, as well as along the streambank. The restored habitat and associated aesthetic improvements may enhance the recreation experience for some visitors to this site. The proposed treatments will reduce the capacity of this site by constraining the area available for parking and camping. Thus, the capacity of the site will change from large

to medium. However, total use levels are not anticipated to change substantially as a result of the proposed actions (i.e., the site is currently very popular and is anticipated to remain popular post implementation).

Photographs:



DRS-25- Photo 1.



DRS-25 – Photo 2.



DRS-25 – Photo 3.



DRS-25 – Photo 4.

Dispersed Recreation Site 26

Site Number: DRS-26/USFS 23

Size: Small; the approximate area of impact of DRS-26 is 5,760 ft².

Site Description: This dispersed recreation site is located at RM 9.78 and 3.8 miles along Sullivan Creek Road. Existing barrier rocks limit vehicular access to the site. There is limited parking within the shoulder of Sullivan Creek Road for visitors to this site. The primary use area is located between Sullivan Creek Road and Sullivan Creek. There are two user-defined campfire rings at this site and pedestrian access to the streambank and creek.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: This dispersed recreation site may be prone to periodic flooding. Soil is exposed and compacted throughout the site, and there is erosion along the streambank. It is mostly devoid of understory and riparian vegetation.

Proposed Treatment: The proposal is to fully close this dispersed recreation site. Treatments include:

- Add barrier rocks to prevent vehicle access,
- Remove the two existing user-defined campfire rings,
- Rip and revegetate access road,
- Iceberg the primary use area, and
- Revegetate the streambank.

Associated Sullivan Creek Restoration Actions: This site is a likely location for additional LWD placement and some excavation at the head of a flood overflow channel to facilitate reactivation of a side channel. Excavation would be limited to near the river bank, and up to 10 pieces of LWD could be added to the channel, perhaps as a log jam, to increase pool area and redirect flows into the side channel.

Anticipated Outcome: Closing this site to recreational use will reduce user effects and restore habitat condition. The closure of this site will reduce recreation capacity and use, but may enhance the overall recreation experience by providing a higher quality and safer visitor experience throughout the Sullivan Creek region. Revegetation of the streambank will improve riparian function and reduce erosion.

Photographs:



DRS-26 – Photo 1.



DRS-26 – Photo 2.



DRS-26 – Photo 3.



DRS-26 – Photo 4.

Dispersed Recreation Site 27

Site Number: DRS-27/USFS 24

Size: Medium; the approximate area of impact of DRS-27 is 5,495 ft².

Site Description: This dispersed recreation site is located at RM 10.04 and 4 miles along Sullivan Creek Road. It is on the western, non-creek side of Sullivan Creek Road so does not provide direct access to the creek. The site is at the end of a short spur road and surrounded by forest vegetation. There is currently a user-defined campfire ring near the end of the spur road. The large, open setting of this site makes it amenable to larger groups.

Use: High. Overnight and day use.

Habitat Issues/Concerns: Given its location on the non-creek side of Sullivan Creek Road, there are minimal creek habitat-related issues and only minor habitat concerns at this dispersed site stemming primarily from potential site creep.

Proposed Treatment: The proposed restoration treatments for this site include:

- Add barrier rocks to better define and delineate appropriate use areas,
- Remove the user-defined campfire ring would,
- Add a campfire metal campfire ring and bear box.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site.

Anticipated Outcome: The proposed addition of barrier rocks at this site will help minimize the potential for future site creep. Removing the user-defined campfire ring and adding a bear box and metal campfire ring will help promote responsible visitor behavior and visitor safety. Changes to capacity and recreation use levels are not anticipated as a result of implementing the proposed actions at this site.

Photographs:



DRS-27 – Photo 1.



DRS-27 – Photo 2.

Dispersed Recreation Site 28

Site Number: DRS-28/USFS 25

Size: Small; the approximate area of impact of DRS-28 is 5,100 ft².

Site Description: This dispersed recreation site is located at RM 10.25 and 4.3 miles along Sullivan Creek Road. Parking is available along the shoulder of Sullivan Creek Road. The site sits on a small terrace that is downslope from the road. There is a user-defined campfire ring at the site and user-defined access to the creek.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: This site appears to be subject to periodic flooding and there is currently a large log jam in the adjacent creek segment. The USFS previously placed barrier rocks at the site entrance to limit and focus recreation use. Nonetheless, recreational use has removed understory vegetation and heavily compacted the soil at this site. There is some streambank erosion that may be due in part to recreational use.

Proposed Treatment: The proposal is to fully close this dispersed recreation site. The treatments for this site include:

- Add barrier rock along Sullivan Creek Road,
- Iceberg the primary use area,
- Remove the existing user-defined campfire rings, and
- Revegetate the disturbed streambank.

Associated Sullivan Creek Restoration Actions: The channel is very active at this location. Up to 10 pieces of LWD will be added at this site using an excavator to increase side-channel formation.

Anticipated Outcome: Closing this site to recreational use will help limit site degradation and restore habitat. The closure of this site will reduce recreation capacity and use (which is already low at this site), but may enhance the overall recreation experience by providing a higher quality and safer visitor experience throughout the Sullivan Creek region.

Photographs:



DRS-28 – Photo 1.



DRS-28 – Photo 2.



DRS-28 – Photo 3.



DRS-28 – Photo 4.

Dispersed Recreation Site 28A

Site Number: DRS-28A

Size: Small; the approximate area of impact of DRS-28A is 1,643 ft².

Site Description: The area identified as DRS-28A is located between DRS-28 and DRS-29 at RM 11.23 and approximately 5.5 miles along Sullivan Creek Road (note: this site was not included in the original 38 identified DRSs). There is a small (1-2 vehicles) pullout along Sullivan Creek Road where visitors to this site can park and access the area. Visitors access the site via a user-defined trail that leads to several flat areas that provide space for tent camping. Two user-defined trails also provide access to Sullivan Creek. Overnight use at this site is currently prohibited.

Use: Low. Currently day use only, but will facilitate overnight use post-restoration actions. Overnight and day use.

Habitat Issues/Concerns: Currently, there are only minimal habitat-related issues and concerns at this dispersed recreation site. Vegetation trampling is limited and primarily focused along the user-defined trails at this site. There is some streambank erosion where one of the user-defined trails accesses Sullivan Creek.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rock to delineate the pullout along Sullivan Creek Road and limit vehicular access to the site,
- Use iceberging to focus camping in select locations to help minimize site creep,
- Retain one of the user-defined trails to Sullivan Creek (close the trail that access the creek via a steep streambank with signs of erosion), and
- Add a metal campfire ring and a bear box.

Associated Sullivan Creek Restoration Actions: No instream restoration anticipated in the vicinity of this site.

Anticipated Outcome: The proposed actions at this new dispersed recreation site will help minimize potential future recreation-related habitat impacts, while enhancing the overall recreation experience along Sullivan Creek. In particular, the addition of DRS-28A will add overnight capacity to help compensate for losses at other areas including DRS-28. Initially, use levels are not anticipated to increase substantially, but the enhancements coupled with nearby site closures could result in moderate use levels in the future.

Photographs:



DRS-28A – Photo 1.



DRS-28A – Photo 2.



DRS-28A – Photo 3.



DRS-28A – Photo 4.

Dispersed Recreation Site 29

Site Number: DRS-29/USFS 26

Size: Medium; the approximate area of impact of DRS-29 is 7,240 ft².

Site Description: This dispersed recreation site is located at RM 11.38 and 5.4 miles along Sullivan Creek Road. There are two primary use areas associated with this dispersed site. The first use area is located on a small bench along the streambank. This first use area is bound on the west and south by roads (Sullivan Creek Road and USFS Road 2200280) and the east and north by Sullivan Creek. The site provides direct access to the creek and has a user-defined campfire ring. The second use area is located across a short bridge (Old Pass Creek Bridge) on USFS Road 2200280. Barrier rocks currently prohibit vehicular access to this second use area, but visitors may access the site by foot. The second use area occupies the existing road bed and has a user-defined campfire ring. This road is blocked about 100 feet from the bridge.

An historic period archaeological site was discovered during the cultural resources survey of the first use area at this dispersed recreation site. The site, a buried rock cairn containing domestic items from the first part of the 20th century, is buried roughly 1 foot (30 cm) below the surface. Two caches of metal cans were observed, one of which is eroding out of the creek bank. The site is being recommended potential eligible for the NRHP. All landscaping and engineering measures used in the first use area should avoid subsurface disturbance within the bounds of the archaeological site (see Cultural Resource Report, Appendix 2).

Use: High. Overnight and day use.

Habitat Issues/Concerns: Most of the resource concerns at this dispersed recreation site are associated with the first use area. The USFS previously added barrier rock to focus use at the site, but recreational use has continued to affect the site. Understory vegetation is nonexistent at the site and there is severe streambank erosion. There are some cultural resource concerns at this first site (see above and Cultural Resources Report, Appendix 2) Since the second use area is located within an old road bed, recreational effects here are negligible.

Proposed Treatment: The proposed treatment is to refocus recreation use at this site away from the streambank and instead encourage use along the USFS Road 2200280. This would be accomplished by completing the following actions:

- Close the stream-side use area by adding barrier rocks and slash,
- Remove the user-defined campfire ring along the streambank and on opposite (southern) side of bridge,
- Allow vehicles and RVs to continue to park on the western side of the Old Pass Creek Bridge,

- Add barrier rocks at the western end of the Old Pass Creek Bridge to limit vehicle access, and
- Maintain pedestrian access across the Old Pass Creek Bridge to the walk-in campsite on the opposite (eastern) side of the creek, and
- Add a campfire ring and bear box to define the camp area on the eastern side of Old Pass Creek Bridge.

Associated Sullivan Creek Restoration Actions: Add LWD (10 pieces) at the site with an excavator above the bridge. Downstream of the bridge, use selective harvest of the riparian zone to increase wood loading in the reach.

Anticipated Outcome: The proposed restoration actions will help improve streambank conditions and habitat at this site while protecting cultural resources. While access to and use of the streambank area will be restricted, the capacity and overall use of the site is not anticipated to change substantially. Visitor use is already focused on the USFS 2200280 roadbed and will likely continue in the future.

Photographs:



DRS-29 – Photo 1.



DRS-29 – Photo 2.



DRS-29 – Photo 3.



DRS-29 – Photo 4.

Dispersed Recreation Site 30

Site Number: DRS-30

Size: Small; the approximate area of impact of DRS-30 is 1,210 ft².

Site Description: This dispersed recreation site is located at RM 12.10 and 6 miles along Sullivan Creek Road. Parking for this site is provided along the shoulder of Sullivan Creek Road. The primary use area consists of a user-defined, worn trail from the road to the creek.

Use: Low. Day use only (USFS previously closed this site to overnight use).

Habitat Issues/Concerns: The user-defined trail from Sullivan Creek Road to the creek is devoid of understory vegetation. The soil is exposed and eroding in places. The steep trail to the creek likely facilitates run-off and sedimentation of the creek.

Proposed Treatment: The following treatments are proposed:

- Add barrier rocks to further limit potential vehicle entry to the site,
- Iceberg the steep upper portion of the trail where soil compaction and erosion is worst, and
- Retain pedestrian access from the road through the iceberged area to the creek to focus recreation use. This path will be designed to direct runoff into the forest rather than down the path and into the creek.

The site will remain open for day use only.

Associated Sullivan Creek Restoration Actions: Several pieces of LWD (approximately 5) may be placed at this site using an excavator or rigging to fell trees into the channel from the riparian zone.

Anticipated Outcome: The proposed treatments will help promote understory growth (by focusing recreational use along a narrower trail), and curb erosion and sedimentation. The general aesthetics of the site will improve once vegetation becomes reestablished, which may enhance the recreational experience for some visitors. Use levels are unlikely to change as use is currently low and the proposed restoration treatments are unlikely to reduce or induce additional use.

Photographs:



DRS-30 – Photo 1.



DRS-30 – Photo 2.

Dispersed Recreation Site 31

Site Number: DRS-31/USFS 28

Size: Large; the approximate area of impact of DRS-31 is 13,810 ft².

Site Description: This dispersed recreation site is located at RM 14.55 and 8.3 miles along Sullivan Creek Road. The site generally includes two use areas, a large upper use area and a smaller, lower use area. The upper use area is undulated bench above the creek with several flat areas that are likely used for camping. There is a user-defined campfire ring in the upper use area, as well as several user-defined trails that provide access to the creek. A propane tank and other equipment associated with a fish pit tag array were recently placed adjacent to this upper use area. The lower use area is accessed via an internal spur road that leads to a point where Gypsy Creek drains into Sullivan Creek. There is a second user-defined campfire ring in this lower use area and several locations along the creek banks where visitors can access the water.

Use: Moderate. Overnight and day use.

Habitat Issues/Concerns: Both the upper and lower use areas at this site are heavily disturbed by dispersed recreation use. The upper use area is devoid of understory vegetation. Exposed and compacted soil delineates the extent of the heaviest used areas along this upper bench. Visitors have also damaged several trees in the upper use area. The road spur to the lower use area is eroded. Most of the understory vegetation has been removed due to recreational use of the lower use area. Soil is exposed and compacted. Visitors have trampled vegetation along the streambanks and there are signs of erosion in several locations.

Proposed Treatment: The proposed treatments at this site include:

- Reduce the area of impact by using barrier rocks to delineate parking areas,
- Rip the existing access spur and close the lower use area to most use, though allow several clearly defined pedestrian routes from the upper use area to the creek,
- Iceberg lower site and the outer perimeter of the western use area,
- Remove the existing user-defined campfire rings, and
- Add a metal campfire ring and bear box.

The dispersed site would remain open to both overnight and day use, provided safety measures are implemented at the adjacent propane tank associated with the fish pit tag array.

Associated Sullivan Creek Restoration Actions: 25 pieces of LWD will be placed in lower Gypsy Creek downstream of the road and mainstem Sullivan Creek upstream of the confluence with Gypsy Creek. Some of the wood may be placed with an excavator through this site.

Anticipated Outcome: The delineated parking and iceberging will help focus both vehicle and camping use at this site in appropriate areas (those where additional impacts are minimized). Closure of the lower use area will help stop streambank erosion and sedimentation. Improving the natural setting of the site may enhance the recreational experience of some visitors. Additionally, the provision of a fire ring and metal bear box will encourage appropriate visitor behavior. The proposed treatments will reduce the capacity of the site by constraining parking (change from large to medium). Total use levels are not anticipated to substantially change, however.

Photographs:



DRS-31 – Photo 1.



DRS-31 – Photo 2.



DRS-31 – Photo 3.



DRS-31 – Photo 4.

Dispersed Recreation Site 32

Site Number: DRS-32/USFS 29

Size: Small; the approximate area of impact of DRS-32 is 1,420 ft².

Site Description: This dispersed recreation site is located at RM 16.06 and 9.8 miles along Sullivan Creek Road. This site currently consists of a small parking and camping area, a user-defined campfire ring, and user-defined trails to the creek.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: Recreational use at this dispersed recreation site has resulted in a loss of understory vegetation and exposed soil throughout the general impact area. The soil is heavily compacted in areas and eroding along the streambank.

Proposed Treatment: The proposed treatment is to close this site to overnight use and designate it for day use only. This would be accomplished by implementing the following actions:

- Use barrier rocks along Sullivan Creek Road to prevent vehicle access to the site (parking would be allowed along the shoulder),
- Iceberg and revegetate the degraded areas,
- Remove the existing user-defined campfire ring, and
- Maintain pedestrian access from Sullivan Creek Road to the creek. This access will be designed to direct runoff into the forest rather than down the path and into the creek.

Associated Sullivan Creek Restoration Actions: Approximately 5-10 pieces of LWD will be placed in the creek in the vicinity of this site.

Anticipated Outcome: Closing this site to overnight use would limit adverse user-induced effects and restore habitat, while retaining some recreation opportunities (compared to a full closure). Prohibiting overnight use will result in a loss of camping capacity at this site, but overall use levels are unlikely to change substantially because of this change (i.e., use levels are currently low and are anticipated to remain low post implementation).

Photographs:



DRS-32 – Photo 1.



DRS-32 – Photo 2.

Dispersed Recreation Site 33

Site Number: DRS-33/USFS 30

Size: Small; the approximate area of impact of DRS-33 is 2,400 ft².

Site Description: This dispersed recreation site is located at RM 17.30 and 11.1 along Sullivan Creek Road. The site consists of a small parking and two use areas. The first use area is located above the creek near the parking area and has a user-defined campfire ring. The second use area is located along the streambank and contains a user-defined campfire ring.

Use: Low. Overnight and day use.

Habitat Issues/Concerns: Recreational use at this dispersed recreation site has resulted in a loss of understory vegetation and exposed soil throughout the general impact area. The soil is heavily compacted in areas and eroding along the streambank.

Proposed Treatment: The proposed treatments at this site include the following:

- Use barrier rocks to delineate and create separation between the parking and camping areas,
- Iceberg along the periphery of the site, in particular near the top of the slope that leads down to the creek,
- Remove the three existing user-defined campfire rings, including one near the creek, but
- Maintain pedestrian access to the creek from Sullivan Creek Road (this path will be designed to direct runoff into the forest rather than down the trail and into the creek),
- Create an area for tents, and
- Add a bear box and fire ring.

Associated Sullivan Creek Restoration Actions: No instream restoration is anticipated in the vicinity of this site.

Anticipated Outcome: The proposed treatments will improve habitat at this site by promoting understory growth and limiting future soil compaction. The general aesthetics of the site will improve once vegetation becomes reestablished, which may enhance the recreational experience for some visitors. In general, recreation capacity and use levels here would slightly decrease.

Photographs:



DRS-33 – Photo 1.



DRS-33 – Photo 2.



DRS-33 – Photo 3.



DRS-33 – Photo 4.

Dispersed Recreation Site 34

Site Number: DRS-34

Size: Medium; the approximate area of impact of DRS-34 is 4,400 ft².

Site Description: This dispersed recreation site is located at RM 18.29, on USFS Road 2200250, and about 12 miles along Sullivan Creek Road. It is within the Lower Gypsy Meadow area, along with DRS-35, DRS-36, and DRS 36A (all four sites are located in a row along a short spur road off Sullivan Creek Road). The site consists of an open area between the internal access/spur road and a side channel of Sullivan Creek. There is a user-defined campfire ring at the site, as well as user-defined trails from the site to the creek. A single vault CXT restroom is located nearby (adjacent to DRS-36).

Use: High. Overnight and day use. This site, along with others in the Lower and Upper Gypsy Meadows area, is popular with equestrian users and hikers since several trails are accessible nearby.

Habitat Issues/Concerns: This dispersed recreation site contains areas of trampled vegetation and bare soil. Drainage is problematic leading to large puddles of mud and standing water in spots. Given the unconfined nature of this site, use tends to expand or shift to avoid areas of standing water and mud.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rocks to better delineate appropriate use areas,
- Iceberg near the side channel access,
- Add gravel to define parking area and provide improved drainage near the road,
- Remove the user-defined campfire ring and add a metal campfire ring and bear box, and
- Maintain pedestrian access to the creek. This access will be designed to direct runoff into the forest rather than down the path and into the creek.

Associated Sullivan Creek Restoration Actions: Up to 5 pieces of LWD will be felled and positioned in the creek in proximity to this site.

Anticipated Outcome: The addition of barrier rocks will help confine vehicle use to appropriate areas at this site. The iceberging will help limit site creep and will help areas along the periphery of the site revegetate over time. Overall, the restoration actions would improve habitat condition. The improved habitat and aesthetic conditions at the site may enhance the recreation experience for some visitors. Capacity and recreation use levels are unlikely to change due to the restoration actions at this site.

Photographs:



DRS-34 – Photo 1.



DRS-34 – Photo 2.



DRS-34 – Photo 3.



DRS-34 – Photo 4.

Dispersed Recreation Site 35

Site Number: DRS-35

Size: Medium; the approximate area of impact of DRS-35 is 5,660 ft².

Site Description: This dispersed recreation site is located at RM 18.3 and about 12 miles along Sullivan Creek Road. It is the second of four dispersed recreation sites along USFS Road 2200250, a spur off of Sullivan Creek Road, and is within the Lower Gypsy Meadow area. The site consists of an open area between USFS Road 2200250 and a side channel of Sullivan Creek. There is a user-defined campfire ring at the site, as well as user-defined trails from the site to the creek. There is an existing metal bear box and a pedestrian trail that leads through DRS-36 to the nearby single vault restroom.

Use: High. Overnight and day use. This site, along with others in the Lower and Upper Gypsy Meadows area, is popular with equestrian users and hikers since several trails are accessible nearby.

Habitat Issues/Concerns: The primary area of use at this dispersed recreation site is devoid of understory vegetation. The soil is exposed and extremely compacted in many locations.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rocks to better delineate appropriate use areas,
- Rip and revegetate the existing eastern vehicle access,
- Add iceberging along the periphery of the site,
- Relocate the existing campfire ring,
- Maintain the existing bear box, and
- Maintain pedestrian access to the creek (designed to direct runoff into the forest rather than down the path and into the creek), as well as to the nearby toilet.

Associated Sullivan Creek Restoration Actions: Up to 5 pieces of LWD will be felled and positioned in the creek in proximity to this site.

Anticipated Outcome: The addition of barrier rocks will help confine vehicle use to appropriate areas at this site. The iceberging will help limit site creep and will help areas along the periphery of the site revegetate over time. Overall, the restoration actions would improve habitat condition. The improved habitat and aesthetic conditions at the site may enhance the recreation experience for some visitors. Capacity and recreation use levels are unlikely to change due to the restoration actions at this site.

Photographs:



DRS-35 – Photo 1.



DRS-35 – Photo 2.



DRS-35 – Photo 3.



DRS-35 – Photo 4.

Dispersed Recreation Site 36

Site Number: DRS-36

Size: Medium; the approximate area of impact of DRS-36 is 3,690 ft².

Site Description: This dispersed recreation site is located at RM 18.3 and about 12 miles along Sullivan Creek Road. It is the third of three dispersed recreation sites along USFS Road 2200250, a spur off of Sullivan Creek Road, and is within the Lower Gypsy Meadow area. The site consists of a pull-through open area along USFS Road 2200250 that is suitable for parking vehicles and/or camping. There is a user-defined campfire ring at the site, as well as user-defined trails to the adjacent single vault CXT restroom and dispersed recreation site DRS-35.

Use: High. Overnight and day use. This site, along with others in the Lower and Upper Gypsy Meadows area, is popular with equestrian users and hikers since several trails are accessible nearby.

Habitat Issues/Concerns: This dispersed recreation site contains areas of trampled vegetation and bare soil. Given the unconfined nature of this site, use tends to expand or shift based on group size and site conditions.

Proposed Treatment: The proposed treatments at this site include:

- Use barrier rocks to better delineate appropriate use areas,
- Remove the user-defined campfire ring and add a metal campfire ring and bear box, and
- Maintain pedestrian access to DRS-35 and the nearby CXT.

Associated Sullivan Creek Restoration Actions: Up to 5 pieces of LWD will be felled and positioned in the creek in proximity to this site.

Anticipated Outcome: The addition of barrier rocks will help confine vehicle use and camping to appropriate areas at this site and limit the potential for site creep. This will also allow vegetation along the periphery of the site to recover over time. The improved habitat and aesthetic conditions at the site may enhance the recreation experience for some visitors. Capacity and recreation use levels are unlikely to change due to the restoration actions at this site.

Photographs:



DRS-36 – Photo 1.



DRS-36 – Photo 2.



DRS-36 – Photo 3.



DRS-36 – Photo 4 (nearby CXT).

Dispersed Recreation Site 36A

Site Number: DRS-36A

Size: Small; the approximate area of impact of DRS-36A is 722 ft².

Site Description: DRS-36A is a new dispersed recreation site that is located across USFS Road 2200250 from DRS-36 (note: this site was not included in the original 38 identified DRSs). The area is currently forested and not used for recreational purposes. It does have a small, relatively flat area that would be suitable for a small parking area and other recreation site amenities (e.g., tent location, fire ring, bear box, etc.).

Use: Low since this area is currently not being used for extensive recreational purposes. Use can reasonably be expected to increase when the area is formalized. Overnight and day use.

Habitat Issues/Concerns: Habitat issues and concerns are minimal since the area is not currently used as a dispersed recreation site.

Proposed Treatment: The proposed treatments at this site include:

- Add gravel to delineate an appropriate parking area,
- Minor vegetation removal to create a focused use area, and
- Add a metal campfire ring and bear box.

Associated Sullivan Creek Restoration Actions: No instream restoration anticipated in the vicinity of this site.

Anticipated Outcome: The proposed actions at this new dispersed recreation site will help minimize potential future recreation-related habitat impacts, while enhancing the overall recreation experience along Sullivan Creek. The addition of DRS-36A will add overnight capacity in the Lower Gypsy Meadow area and help compensate overnight closures and limitations at other areas. While use of this area is currently low, it can reasonably be expected to increase once the site is formalized. Given the current high use levels at adjacent sites 35 and 36, similar levels of high use may be expected at DRS-36A in the future.

Photographs:



DRS-36A – Photo 1.



DRS-36A – Photo 2.



DRS-36A – Photo 3.



DRS-36A – Photo 4.

Dispersed Recreation Site 36B

Site Number: DRS-36B

Size: Medium; the approximate area of impact of DRS-36B is 3,149 ft².

Site Description: This dispersed recreation site is located at RM 18.3 and about 12 miles along Sullivan Creek Road (note: this site was not included in the original 38 identified DRSs). It is located across Sullivan Creek Road from DRS-35 and DRS-36, and currently functions as an overflow area when these sites are in use. The site consists of a short access road and parking area, as well as several flat areas that may be used for tent camping.

Use: Moderate. Overnight and day use.

Habitat Issues/Concerns: There are some current habitat issues at this dispersed recreation site, including damage to several trees, trampled vegetation, and a couple of user-defined trails. The user-defined trails do not provide access to specific areas, but rather appear to be used by visitors as an outdoor restroom and to dump trash away from the main use area of the site.

Proposed Treatment: The proposed treatments at this site include:

- Add gravel to delineate appropriate vehicle parking areas, and
- Add a metal campfire ring and bear box.

Associated Sullivan Creek Restoration Actions: No instream restoration anticipated in the vicinity of this site.

Anticipated Outcome: The addition of DRS-36B will also add new overnight capacity in the Lower Gypsy Meadows area, as well as the larger Sullivan Creek region. The site enhancements will help focus recreation use and limit potential future impacts. Use levels will likely remain moderate, though the site may reach high use levels in the future given the overall high use levels in the Upper and Lower Gypsy Meadow area.

Photographs:



DRS-36B – Photo 1.



DRS-36B – Photo 2.



DRS-36B – Photo 3.



DRS-36B – Photo 4.

Dispersed Recreation Site 37

Site Number: DRS-37

Size: Large; the approximate area of impact of DRS-37 is 4,895 ft².

Site Description: This dispersed recreation site is access via USFS Road 2200252 at RM 18.5 and approximately 12.3 miles along Sullivan Creek Road. It is one of two dispersed recreation sites in Upper Gypsy Meadow (along with DRS-38). The primary use area at this dispersed recreation site is adjacent to Sullivan Creek, though visitors often make use of other locations along the access road and highlines to set up camp. The use area near the creek includes a metal campfire ring and bear box. A well-worn user-defined trail provides pedestrian and equestrian access to the creek.

Sites 37 and 38 are located within an archaeological site number 45FS1205, Gypsy Meadows. The site is a depression area Civilian Conservation Corps spike camp. The site has been recommended potential eligible for the NRHP. Based on surface survey, archival research and satellite imagery it appears as though the site encompasses the entire meadow. Multiple concrete features and pits are visible at the surface. Historic photos show the meadow filled with tents and structures, and satellite images clearly show the outline of past structures. The USFS archaeologist has expressed concern over subsurface disturbance, or the placement of additional roads in the meadow. Any planned campsite relocation, or significant changes must be approved by the USFS archaeologist. Approval of any significant changes is likely to require additional cultural resources survey and excavation.

Use: High. Overnight and day use. This site, along with others in the Lower and Upper Gypsy Meadows area, is popular with equestrian users and hikers since several trails are accessible nearby.

Habitat Issues/Concerns: From a habitat perspective, most of the critical issues are adjacent to Sullivan Creek. The vegetation in this area is trampled and there are large areas of exposed soil. The user-defined trail to the creek is heavily eroded and likely contributes sediment to the creek. The soil around many of the nearby trees is disturbed due to horses that dig around the base of the trees when tied here. Given the open, meadow setting of this dispersed recreation site (and the entire Upper Gypsy Meadow), the potential for visitors to spread out and disturb other areas is high. The Gypsy Meadows vicinity was a former Civilian Conservation Corp camp and it is highly likely that subsurface remnants of this activity occur throughout the area (see above and Appendix 2 for additional detail and discussion of historic resource concerns at Gypsy Meadows).

Proposed Treatment: The proposed treatments at this site and DRS-38 would better align future recreation use of the Upper Gypsy Meadows area with the intended restoration goals of improved fish habitat and historic/cultural resource protection. Given the current and proposed access and recreation site amenity configuration of this area, the proposed treatments consider DRS-37 and DRS-38 as one large dispersed

recreation site (as opposed to separate sites). The proposed treatments at this combined DRS-37 and DRS-38 site include:

- Add a gate on the access road to better control vehicular access to the site. The gate would likely be placed near the restrooms adjacent to DRS-36 to facilitate a vehicle turnaround within the existing road footprint. Public use of the site would be coordinated with the Sullivan Creek Ranger Station likely on a first-come, first-served basis.
- Provide a designated kitchen area near Sullivan Creek in the trees at the western edge of the meadow (current location of a fire ring and bear box). No permanent amenities will be added in the kitchen area
- Add a second pair of highlines along the eastern side of the meadow.
- Relocate all campfire rings and bear boxes to the eastern side of the meadow adjacent to the existing and proposed new highlines. In total, the combined DRS-37 and DRS-38 area will provide 2 sets of campfire rings and bear boxes.
- Retain equestrian access to Sullivan Creek at the western edge of the meadow.
- Use barrier rocks to control vehicular access through the site and to help protect documented historic/cultural resources at this site.

Additional disturbances from new recreation amenities and site features throughout the Upper Gypsy Meadows area are not recommended beyond those listed above (see the Cultural Resources Report in Appendix 2 for details on the historic/cultural resources at this site). Furthermore, all restoration treatments at this site will be limited to surface enhancements only. There will be no below-ground disturbance so as to minimize potential impacts to any subsurface historic/cultural resources at this site.

Associated Sullivan Creek Restoration Actions: Up to 5 pieces of LWD will be felled and positioned in the creek in proximity to this site. Spawning habitat for Westslope Cutthroat trout in Sullivan Creek will be monitored periodically to help identify potential future impacts from continued recreation access to the creek at this site. If necessary, the kitchen area will be moved further away from the creek if site conditions degrade from overuse.

Anticipated Outcome: The proposed site enhancements, including gated access, fencing/barrier rocks and relocated camping areas, will help limit potential recreation impacts to the documented cultural resources at this site. Capacity and recreation use levels are unlikely to change as a result of the restoration actions, though users will have to modify their visits to include a stop at the Sullivan Creek Ranger Station to secure access to the site (likely a temporary inconvenience as users learn about and become accustomed to this new process). Recreation use is currently high and will remain high post enhancements due to the popularity of this site.

Photographs:



DRS-37 – Photo 1.



DRS-37 – Photo 2.



DRS-37 – Photo 3.



DRS-37 – Photo 4.

Dispersed Recreation Site 38

Site Number: DRS-38

Size: Large; the approximate area of impact of DRS-38 is 2,175 ft².

Site Description: This dispersed recreation site is access via USFS Road 2200252 at RM 18.5 and approximately 12.3 miles along Sullivan Creek Road. It is one of two dispersed recreation sites in Upper Gypsy Meadow (along with DRS-37). This primarily undefined use area is located near the northern end of Upper Gypsy Meadow and includes a user-defined campfire ring and a bear box.

Use: High. Overnight and day use. This site, along with others in the Lower and Upper Gypsy Meadows area, is popular with equestrian users and hikers since several trails are accessible nearby. That said, this use area likely receives less use than DRS-37 given its distance from Sullivan Creek.

Habitat Issues/Concerns: Existing habitat concerns are likely minor at this site. The presence of the campfire ring indicates that visitors use the site and that it may be susceptible to future degradation (vegetation trampling, tree damage, soil compaction, etc.). Similar to DRS-37, there is a high likelihood of the occurrence of subsurface cultural resources here and ground disturbing activities should be avoided (see DRS 37 and Appendix 2).

Proposed Treatment: See the proposed treatments described under DRS-37.

Associated Sullivan Creek Restoration Actions: See the restoration and monitoring actions described under DRS-37.

Anticipated Outcome: See the anticipated outcomes described under DRS-37.

Photographs:



DRS-38 – Photo 1.



DRS-38 – Photo 2.



DRS-38 – Photo 3.



DRS-38 – Photo 4.

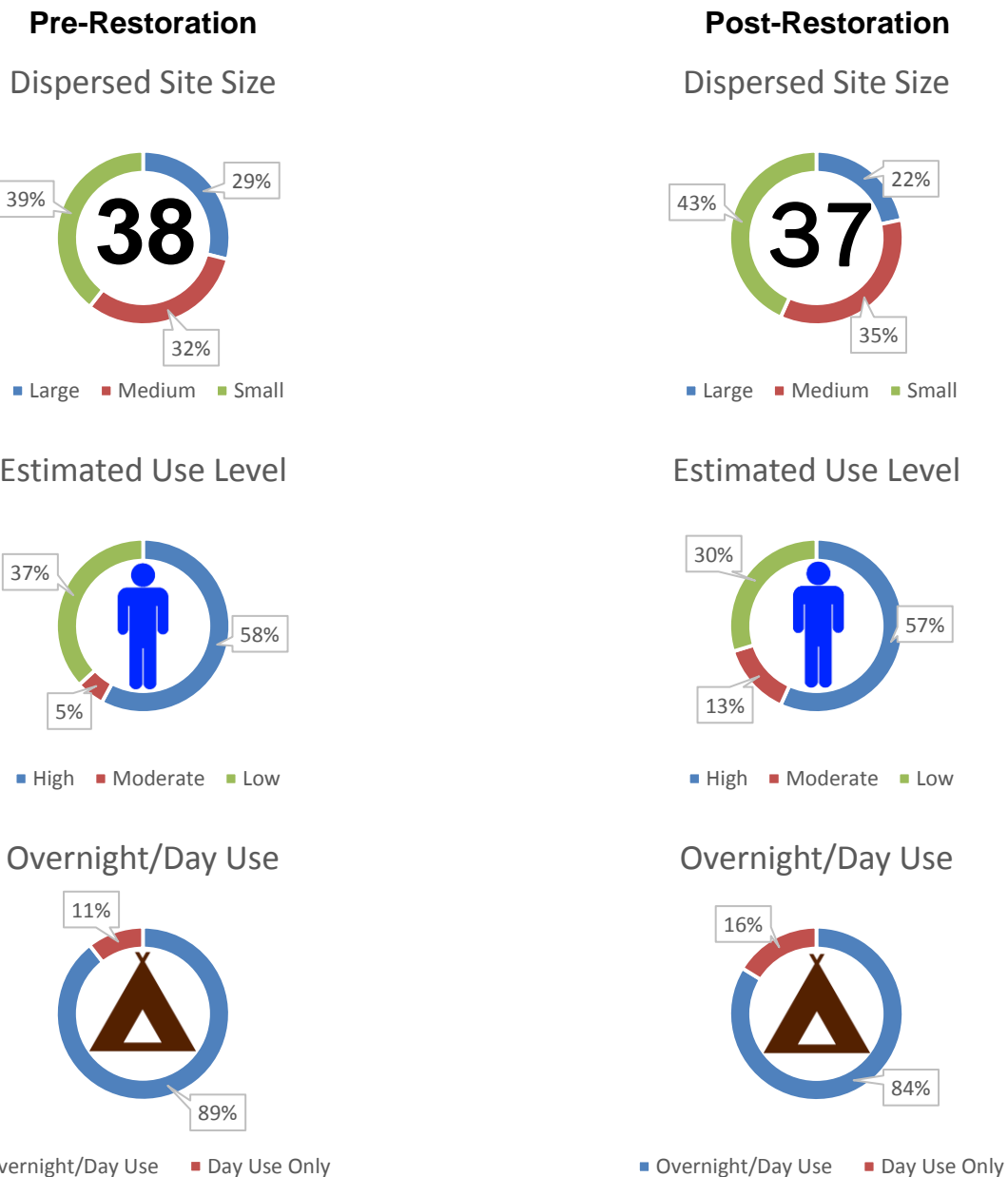


Figure 4-5. Dispersed Recreation Site Comparison: Pre- and Post-Restoration.

Table 4-1. Summary of Existing Conditions and Proposed Prescriptions at the 38 Existing and the 5 Proposed New Sullivan Creek Dispersed Recreation Sites.

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
DRS-01	Large	High	<ul style="list-style-type: none"> • Lack of understory vegetation and exposed soil • Compacted soil and drainage issues • Tree damage and exposed roots • Streambank erosion (in particular from dredge mining) 	<ul style="list-style-type: none"> • Use barrier rock to delineate appropriate vehicle access and parking areas • Use iceberging to focus camping in select locations, in particular away from the streambank, and to help minimize site creep • Revegetate along the most heavily damaged streambanks • Remove the user-defined campfire rings • Formalize access to the creek in four streambank locations (including one kayak launch) • Add an informational kiosk, campfire rings and bear boxes 	Large	High
DRS-02	Large	High	<ul style="list-style-type: none"> • Trampled vegetation • Exposed and compacted soil • Sanitation issues • Potential for future site creep 	<ul style="list-style-type: none"> • Add barrier rocks to better delineate appropriate parking areas • Use iceberging to focus camping in select locations, in particular away from the streambank, and to help minimize site creep • Add a bear box and campfire ring • Define access to site by adding a gravel drive 	Large	High

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
DRS-02A (new)	Small	Low	<ul style="list-style-type: none"> Some trampled vegetation Small areas of exposed and compacted soil 	<ul style="list-style-type: none"> Use barrier rock to delineate appropriate vehicle access and parking areas Remove the user-defined campfire rings Add a metal campfire ring and bear box Add a restroom that would serve all dispersed recreation sites in the vicinity of Moon Flats 	Small	High
DRS-03	Medium	High	<ul style="list-style-type: none"> Lack of understory vegetation Exposed and compacted soil Tree damage and exposed roots Potential for future site creep 	<ul style="list-style-type: none"> Add barrier rocks to better delineate appropriate parking areas and create separation from camping areas Create a vehicle turn-around Use light iceberging to pull use away from the steep slope to the creek Remove the user-defined campfire rings Add a bear box and campfire ring 	Medium	High
DRS-04	Medium	Low	<ul style="list-style-type: none"> Trampled vegetation Exposed and compacted soil Streambank erosion 	<ul style="list-style-type: none"> Use barrier rocks to close the internal access road just beyond the small pull-out Rip road for 80 feet beyond barrier rocks Provide a bear box and campfire ring 	Small	Low

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
DRS-05	Large	High	<ul style="list-style-type: none"> Trampled and lost vegetation Exposed and compacted soil Streambank erosion 	<ul style="list-style-type: none"> Use barrier rocks to delineate parking/vehicle access at the upper use area Add iceberging around the periphery of the upper use area to help focus recreation use Move the location of the existing bear box at the upper use area and add a campfire ring Use barrier rocks to close the internal access road to the lower use area Rip and revegetate the internal access road and lower use area Iceberg the lower camp area Retain and focus pedestrian use from the upper use area to the lower use area and creek 	Small	Moderate
DRS-06	Small	Low (day use only)	<ul style="list-style-type: none"> Potential for future impacts and site creep 	<ul style="list-style-type: none"> Maintain closure to overnight camping Iceberg the perimeter to limit site creep Remove the user-defined campfire ring Maintain pedestrian access to the creek 	Small	Low (day use only)
DRS-07	Small	High	<ul style="list-style-type: none"> Proliferation of user-defined trails to the creek Potential for future impacts and site creep 	<ul style="list-style-type: none"> Add additional barrier rocks to further delineate parking Iceberg along the periphery of the site closest to creek Maintain existing bear box and add campfire ring Add slash to 	Small	High

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
				block access for off road vehicles • Maintain pedestrian access to the creek		
DRS-08	Small	High	• Potential for increased user-defined trail use • Minor recreation-related habitat issues	• Add several barrier rocks to limit vehicular use of user-defined trails • Remove the existing user-defined campfire ring and install a new campfire ring	Small	High
DRS-09	Large	Low	• Located in active stream migration channel • Vegetation trampling and loss • Soil compaction • High amounts of trash and recreation-related debris	• Close site • Add additional barrier rocks to further prohibit access • Rip and revegetate access road • Remove the user-defined campfire ring • Iceberg the primary use area	None (closed)	None
DRS-10	Medium	High	• Located in active stream migration channel • Vegetation loss • Heavy tree damage • Exposed and compacted soil • Soil erosion and undercutting of streambank	• Close site • Add additional barrier rocks to further prohibit access • Remove the existing user-defined campfire rings • Rip areas without mature trees and add iceberging to allow the main use area to revegetate naturally • Add barrier rock and slash to further discourage camping • Revegetate streambank	None (closed)	None
DRS-11	Medium	High	• Trampled vegetation • Exposed and compacted soil	• Use barrier rock to delineate parking area	Small	High

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
			<ul style="list-style-type: none"> Tree damage and exposed roots 	<ul style="list-style-type: none"> Add iceberging around the periphery of the current impact area (to reduce the size and extent of impacts) Maintain trail access from the site to the creek Add a bear box and campfire ring Retain three to four of the existing pedestrian access routes to the river Revegetate the streambank. 		
DRS-12	Medium	High	<ul style="list-style-type: none"> Partially within the active stream migration channel Trampled vegetation Exposed soil Streambank erosion 	<ul style="list-style-type: none"> Use barrier rock to delineate parking area (provide enough space for a vehicle turn-around) Iceberg and revegetate around the periphery of the current impact area (to reduce the size and extent of impacts) Relocate bearbox so it is near the campfire ring Remove the user-defined campfire ring near the parking area and add a campfire ring outside the flood prone area Maintain pedestrian access from the site to the creek Revegetate the streambank 	Small	High
DRS-13	Medium	High	<ul style="list-style-type: none"> Lack of understory vegetation Exposed and compacted soil 	<ul style="list-style-type: none"> Use barrier rock to delineate parking area Iceberg and revegetate main use area 	Small	High

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
				<ul style="list-style-type: none"> • Rip the old road leading from upper site • Relocate the existing bear box • Remove the user-defined campfire ring near the parking area, and add a campfire ring • Maintain pedestrian access from the site to the creek 		
DRS-14	Large	High	<ul style="list-style-type: none"> • Potential for future impacts and site creep 	<ul style="list-style-type: none"> • Clear vegetation and provide light grading along the closed portion of the existing spur road such that it again functions as a pull-through off of Sullivan Creek Road • Delineate four specific sites within the existing footprint of DRS-14 and along the spur road • Provide an appropriate parking area, metal campfire ring, and bear box at each site • Add barrier rocks to better define and delineate appropriate use areas at all existing and new use areas • Remove the existing user-defined campfire rings 	Large	High
DRS-15	Small	Low	<ul style="list-style-type: none"> • Potential for future impacts and site creep 	<ul style="list-style-type: none"> • Add barrier rock to better delineate parking area • Remove the existing campfire rings • Add a campfire ring and bear box 	Small	Low

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
DRS-16	Small	Low	<ul style="list-style-type: none"> Potential for future impacts and site creep 	<ul style="list-style-type: none"> Add barrier rock to better delineate parking area Remove the existing user-defined campfire rings Add a bear box and campfire ring 	Small	Low
DRS-17	Large	High	<ul style="list-style-type: none"> Partially within the active stream migration channel Lack of understory vegetation Exposed and highly compacted soil Exposed roots Erosion along streambank 	<ul style="list-style-type: none"> Focus recreational use at the site outside of the active stream migration channel Use barrier rock to delineate parking area Iceberg the western leg of the affected area (to reduce the size and extent of impacts) Establish a user area in eastern leg of the site and iceberg the periphery to define use in this area Maintain pedestrian access from the primary use area to the creek Remove the user-defined campfire ring near the creek (in stream migration channel), and add a campfire ring and maintain the bear box in the primary use area 	Medium	High
DRS-18	Small	Low (day use only)	<ul style="list-style-type: none"> Minor habitat concerns 	<ul style="list-style-type: none"> Add barrier rocks to better limit vehicle access 	Small	Low (day use only)
DRS-19	Small	Low	<ul style="list-style-type: none"> Lack of understory and riparian vegetation Exposed and compacted soil 	<ul style="list-style-type: none"> Close to overnight use Use barrier rocks along Sullivan Creek Road to prevent vehicle access to the site (parking 	Small	Low (day use only)

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
			<ul style="list-style-type: none"> • Soil erosion along streambank 	<ul style="list-style-type: none"> • would be allowed along the shoulder) • Iceberg the site to promote natural revegetation • Maintain pedestrian access from Sullivan Creek Road to the creek 		
DRS-20	Medium	Moderate	<ul style="list-style-type: none"> • Potential for future impacts and site creep 	<ul style="list-style-type: none"> • Add barrier rock to better delineate parking area • Remove the existing user-defined campfire ring • Add a bear box and fire ring 	Medium	Moderate
DRS-21	Small	High	<ul style="list-style-type: none"> • Lack of understory vegetation • Trampled riparian vegetation • Exposed and compacted soil • Soil erosion along streambank 	<ul style="list-style-type: none"> • Close to overnight use • Use barrier rocks along Sullivan Creek Road to prevent vehicle access to the site (parking would be allowed along the shoulder) • Remove the existing user-defined campfire ring • Iceberg the site to promote natural revegetation, • Revegetate the streambank • Maintain pedestrian trail access from Sullivan Creek Road to the creek 	Small	Low (day use only)
DRS-21A (new)	Small	Low	<ul style="list-style-type: none"> • Some vegetation trampling along the user-defined trail that currently bisects the site 	<ul style="list-style-type: none"> • Clear an area along the current user-defined trail to create a small dispersed recreation site • Use barrier rock to delineate the new site and associated parking area 	Small	Low

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
				<ul style="list-style-type: none"> Add a metal campfire ring and bear box 		
DRS-22	Small	Low	<ul style="list-style-type: none"> Trampled understory and riparian vegetation Exposed and compacted soil Soil erosion along streambank 	<ul style="list-style-type: none"> Close site Use barrier rocks along USFS 2200500 Road to prevent access to the site Iceberg and actively revegetate, in particular along the streambank 	None (closed)	None
DRS-23	Large	High	<ul style="list-style-type: none"> Potential for future impacts and site creep 	<ul style="list-style-type: none"> Use barrier rocks to better delineate parking and use areas Iceberg western use area Rip and replant the spur road, while retaining a vehicle turn-around Close unofficial loop road with boulders and slash Add a campfire ring and maintain the bear box 	Medium	High
DRS-24	Small	Low (day use only)	<ul style="list-style-type: none"> Within active stream migration channel Potential for future impacts 	<ul style="list-style-type: none"> Close site Add additional barrier rocks along Sullivan Creek Road Rip and plant existing access road Remove the existing user-defined campfire ring Create an earthen berm and trench to further restrict vehicle access 	None (closed)	None
DRS-25	Large	High	<ul style="list-style-type: none"> Lack of understory vegetation Exposed and compacted soil 	<ul style="list-style-type: none"> Use barrier rock to delineate parking area, as well as prohibit off-highway vehicle access to 	Medium	High

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
			<ul style="list-style-type: none"> Tree damage and exposed roots Soil erosion along streambank 	<p>the site along Sullivan Creek Road</p> <ul style="list-style-type: none"> Add iceberging around the periphery of the current impact area (to reduce the size and extent of impacts) Remove the user-defined campfire ring, and add a campfire ring and bear box in the primary use area Maintain access from the site to the creek 		
DRS-26	Small	Low	<ul style="list-style-type: none"> Within the active stream migration channel Lack of understory and riparian vegetation Exposed and compacted soil Soil erosion along streambank 	<ul style="list-style-type: none"> Close site Add more barrier rocks to prevent vehicle access Remove two existing user-defined campfire rings Rip and revegetate access road Iceberg the primary use area Revegetate the degraded streambank 	None (closed)	None
DRS-27	Medium	High	<ul style="list-style-type: none"> Potential for future impacts and site creep 	<ul style="list-style-type: none"> Add barrier rocks to better define and delineate appropriate use areas Remove user defined fire ring Add a metal campfire ring and bear box 	Medium	High
DRS-28	Small	Low	<ul style="list-style-type: none"> Within the active stream migration channel Lack of understory and riparian vegetation Exposed and compacted soil 	<ul style="list-style-type: none"> Close site Add barrier rock along Sullivan Creek Road Iceberg the primary use area 	None (closed)	None

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
			<ul style="list-style-type: none"> • Soil erosion along streambank 	<ul style="list-style-type: none"> • Revegetate the disturbed streambank 		
DRS-28A (new)	Small	Low (day use only)	<ul style="list-style-type: none"> • Limited areas of trampled vegetation • Some streambank erosion 	<ul style="list-style-type: none"> • Use barrier rock to delineate the pullout along Sullivan Creek Road and limit vehicular access to the site • Use iceberging to focus camping in select locations to help minimize site creep • Retain one of the user-defined trails to Sullivan Creek (close the trail that access the creek via a steep streambank) • Add a metal campfire ring and a bear box 	Small	Moderate
DRS-29	Medium	High	<ul style="list-style-type: none"> • Lack of understory vegetation • Cultural resource concerns 	<ul style="list-style-type: none"> • Close the stream-side use area by adding barrier rock and slash • Remove the user-defined campfire ring along the streambank • Allow vehicles and RVs to continue to park on the western side of the Old Priest Lake Bridge • Add barrier rocks at the western end of the Old Priest Lake Bridge to limit vehicle access • Maintain pedestrian access across the Old Priest Lake Bridge to the walk-in campsite on the opposite (eastern) side of the creek 	Medium	High

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
				<ul style="list-style-type: none"> Add campfire ring and bear box to define camp area on eastern side of bridge. 		
DRS-30	Small	Low (day use only)	<ul style="list-style-type: none"> Lack of understory vegetation along user-defined trail Exposed and eroded soil 	<ul style="list-style-type: none"> Add barrier rocks to further limit potential vehicle entry to the site Iceberg the steep upper portion of the trail where soil compaction and erosion is worst Retain a pedestrian access from the road through the iceberged area to the creek to focus recreation use 	Small	Low (day use only)
DRS-31	Large	Moderate	<ul style="list-style-type: none"> Trampled riparian/streambank vegetation Lack of understory vegetation Exposed and compacted soil Tree damage Soil erosion 	<ul style="list-style-type: none"> Reduce the area of impact by using barrier rocks to delineate parking areas Rip the existing access spur and close the lower use area to most use, though allow several clearly defined pedestrian routes from the upper use area to the creek Iceberg lower site and western use area Remove the user-defined campfire rings Add a campfire ring and bear box 	Medium	Moderate
DRS-32	Small	Low	<ul style="list-style-type: none"> Lack of understory vegetation Exposed and compacted soil 	<ul style="list-style-type: none"> Close to overnight use Use barrier rocks along Sullivan Creek Road to prevent vehicle access to the site (parking 	Small	Low (day use only)

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
			<ul style="list-style-type: none"> • Soil erosion along streambank 	<p>would be allowed along the shoulder)</p> <ul style="list-style-type: none"> • Iceberg and actively revegetate the impact areas • Remove the existing user-defined campfire ring • Maintain pedestrian access from Sullivan Creek Road to the creek 		
DRS-33	Small	Low	<ul style="list-style-type: none"> • Lack of understory vegetation • Exposed and compacted soil • Soil erosion along streambank 	<ul style="list-style-type: none"> • Use barrier rocks to delineate and create separation between the parking and camping areas • Iceberg along the periphery of the site, in particular near the top of the slope that leads down to the creek • Remove the user-defined campfire rings M • Maintain pedestrian trail access to the creek from Sullivan Creek Road • Create tent area • Add a bear box and fire ring 	Small	Low
DRS-34	Medium	High	<ul style="list-style-type: none"> • Trampled vegetation and exposed soil • Problematic drainage • Site creep (to avoid standing water and mud) 	<ul style="list-style-type: none"> • Use barrier rocks to better delineate appropriate use areas • Add iceberging along the periphery of the site • Add gravel to define parking area • Remove user defined campfire ring and add a new metal ring 	Medium	High

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
				<ul style="list-style-type: none"> Maintain pedestrian access to the creek 		
DRS-35	Medium	High	<ul style="list-style-type: none"> Lack of understory vegetation Exposed and compacted soil 	<ul style="list-style-type: none"> Use barrier rocks to better delineate appropriate use areas Add iceberging along the periphery of the site Rip and revegetate the eastern vehicle access Relocate the existing campfire ring and maintain bear box Maintain pedestrian access to the creek, as well as the nearby CXT 	Medium	High
DRS-36	Medium	High	<ul style="list-style-type: none"> Trampled vegetation and exposed soil Site creep 	<ul style="list-style-type: none"> Use barrier rocks to better delineate appropriate use areas Remove user-defined campfire ring and add a metal campfire ring and a bear box Maintain pedestrian access to DRS-35 and the nearby CXT 	Medium	High
DRS-36A (new)	Small	Low	<ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Minor vegetation clearing to create a focused use area Use gravel to delineate an appropriate parking area Add a metal campfire ring and bear box 	Small	High
DRS-36B (new)	Medium	Moderate	<ul style="list-style-type: none"> Some tree damage Trampled vegetation Several user-defined trails 	<ul style="list-style-type: none"> Use gravel to delineate appropriate vehicle parking areas Add a metal campfire ring and bear box 	Medium	Moderate

Site	Pre-Restoration			Post-Restoration		
	Impact Area ¹	Estimated Use Level	Habitat Concerns	Proposed Prescriptions	Use Area ¹	Anticipated Use Level
DRS-37	Large	High	<ul style="list-style-type: none"> Trampled vegetation Exposed and compacted soil Erosion along streambank Soil disturbance around trees (from horses) High potential for site creep Historic/cultural resource concerns 	<ul style="list-style-type: none"> Add a gate on the access road to better control vehicular access to the site Relocate all campfire rings and bear boxes along the eastern side of the meadow adjacent to the existing and proposed new highlines (the combined DRS-37 and DRS-38 area will provide 2 sets of campfire rings and bear boxes) Provide a designated kitchen area near Sullivan Creek in the trees at the western edge of the meadow Retain equestrian access to Sullivan Creek at the western edge of the meadow Use barrier rocks to control vehicular access through the site and to help protect documented historic/cultural resources at this site 	Large	High
DRS-38	Large	High	<ul style="list-style-type: none"> Potential for future impacts and site creep Historic/cultural resource concerns 	<ul style="list-style-type: none"> See DRS-37 	Large	High

¹ Impact area and use area are qualitative area estimates based on the number of vehicles that can currently (Impact Area) and in the future (Use Area) park at each dispersed recreation site.

